UTAH

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

BIBLIOGRAPHY TO ACCOMPANY
GEOLOGIC MAP INDEX OF UTAH

GEOLOGIC MAP INDEX

OF

UTAH

Revised and updated by

H. Kit Fuller

1988

from original compilation by

W. L. McIntosh and M. F. Eister

1979

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DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

EXPLANATION

GEOLOGIC MAP INDEX
UTAH

INTRODUCTION

The U.S. Geological Survey Geologic Map Index (GMI) of Utah is an update and revision of the index published in 1979 (McIntosh and Eister). This GMI differs from the earlier USGS editions (Boardman, 1948; Boardman, 1954; and McIntosh and Eister, 1979) in several ways: (1) geologic maps published through mid-1987 have been included; (2) additional data on older maps have been added; (3) errors in old data have been corrected; and (4) information is included on how to use the index and obtain maps. Other older indexes (Gaul, 1952a; Gaul, 1952b; Hintze and Boardman, 1964) were not used in this update.

DESCRIPTION OF THE GEOLOGIC MAP INDEX

This GMI consists of four main parts: (1) a geographic map to help locate areas of interest; (2) a set of index maps organized by scale range, which show the areas of geologic mapping; (3) a bibliography organized by GMI ID number, which gives information about each map; and (4) this explanation, which gives additional information.

The index maps separate the most detailed geologic maps (scales larger than 1:63,360) from the least detailed (scales smaller than 1:63,360) to aid in selecting the most appropriate map for a given purpose. An area of a geologic map is shown by a pattern and is assigned a number that corresponds to a reference in the bibliography. The patterns show the **extent** of each geologic map indexed and do not represent different kinds of maps.

The bibliography is numbered generally in the order the data were collected, although maps of an area may be grouped together. Each bibliographic reference uses the following format, and is punctuated as shown but may not include all of these data:

ID number. Author, publication date, Title: Publisher, Report series and number, figure or plate number, name of area or topic of map, scale. (Depositories.) Remarks.

A publication may include maps of more than one area, in which case the ID number appears more than once on the index maps, although all the plates or figures in each publication are listed together in the bibliography. A publication may have more than one map of the same area (for example, bedrock and surficial), in which case the ID number appears only once on an index map.

Geologic maps of the whole State and very large areas are not shown on the index maps; these publications are marked with an asterisk (*) in the bibliography.

WHAT MAPS ARE INDEXED

Geologic maps of areas in the United States and its territories published by the U.S. Geological Survey (USGS) other Federal agencies, State surveys, professional societies, universities, and commercial entities are indexed, if they meet the following criteria (Fuller, 1984):

Map must be published. No theses, dissertations, open-file reports by State surveys, or other unpublished maps are indexed. USGS Open-File Reports, however, are indexed.
Map must have geologic units and explain them in terms of lithology, stratigraphy, and age.
Map must be more detailed than the primary State geologic map (commonly 1:250,000 or 1:500,000 scale).
Map must be an original compilation, not a generalized version or re-use of a previously published map. Formal publication of a map that previously appeared in a thesis, dissertation, or an open-file report by a State survey is considered an original compilation.
Map must have scale and good geographic control such as latitude and longitude, township and range, a good base map, or an index map showing the precise outline of the area mapped.

HOW TO USE THE GEOLOGIC MAP INDEX

First, **find your area of interest** on the geographic map and then on the index maps.

Next, **note the ID numbers** of the patterned areas in your area of interest.

Then, **find these ID numbers in the bibliography** to find out more about each map.

Also, **look in the bibliography for reports marked with asterisks,** especially if you need generalized or regional maps.

A NOTE ABOUT MAP SCALE

Scale is the relationship of distance on the map to distance on the ground. Scale is an important factor in choosing the best map for a given purpose, because it is an indicator of how much detail the map can show. A scale shown as a representative fraction (for example, 1/63,360 or 1:63,360) means that 1 unit of measure on the map (for example, 1 inch) equals 63,360 of the same units (63,360 inches, which equals 1 mile) on the ground. The smaller the denominator the more detail can be shown on the map; conversely, the larger the denominator the more area can be shown.

HOW TO OBTAIN GEOLOGIC MAPS

Contact the publisher for information on availability, current price, and ordering instructions; the publisher is shown after the colon (:) in each reference in the bibliography, and the series name and number of the map or report follows the publisher. Most publishers sell only their products, and they use their own publication identification numbers when referring to their products, not the ID numbers shown on this GMI. Following is a list of publishers of most maps in this index; information on publishers not in this list is available from large libraries or from the Geologic Inquiries Group (see address under "Further Information").

Selected publishers of geologic maps of Utah

American Association of Petroleum Geologists, Box 979, Tulsa, OK 74101 918/584-2555

American Journal of Science, Kline Geology Laboratory, Yale University, P.O. Box 6666, New Haven, CT 06511 203/436-4771

Brigham Young University, Provo, UT 84602 801/378-4418

Canyonlands Natural History Association, 125 West 200 South, Moab, UT 84532

Compass, Sigma Gamma Epsilon, 830 Van Vleet Oval, Room 163, Norman, OK 73019

Economic Geology, Economic Geology Publishing Company, Business Editor, P.O. Box 637, University of Texas-El Paso, El Paso, TX 79968-0637

Geological Society of America, 3300 Penrose Place, Boulder, CO 80301 303/447-2020

Harvard College Museum of Comparative Zoology, Harvard University, Cambridge, MA 02138 617/495-2466

Intermountain Association of Petroleum Geologists (see Utah Geological Association)

Journal of Geology, The University of Chicago Press, P.O. Box 37005, Chicago, IL 60637 312/962-7600

Rocky Mountain Association Geologists, 1220 University Building, 910 16th Street, Denver, CO 80202

University of Utah Research Institute, Salt Lake City, UT 84112 801/581-7200

U.S. Bureau of Mines, Production/Distribution, Cochrans Mill Road, P.O. Box 18070, Pittsburgh, PA 15236 412/675-4338

U.S. Geological Survey (see addresses below)

Utah Department of Natural Resources, 1636 W. North Temple Street, Salt Lake, UT 84116 801/533-5356

Utah Geological and Mineral Survey, 606 Black Hawk Way, Salt Lake City, UT 84108-1280 801/581-6831

Utah Geological Association, Box 11334, Salt Lake City, UT 84147

Utah Geological Society (see Utah Geological Association)

Utah State Engineer (see Utah Department of Natural Resources)

Utah State Land Board (see Utah Geological and Mineral Survey)

Zion Natural History Association, Zion National Park, Springdale, UT 84767

U.S. Geological Survey Branches of Distribution

Maps:

U.S. Geological Survey
Map Distribution
Federal Center
Box 25286
Denver, CO 80225
303/237-7477

Text products:

U.S. Geological Survey
Books and Open-File Reports
Federal Center
Box 25425
Denver, CO 80225
303/236-7476

Depositories

The abbreviations below, which are used in OF references in the bibliography, indicate USGS and Department of the Interior offices where selected OF's may be inspected.

A Public Inquiries Office, Room 101, 4230 University Drive, Anchorage, AK 99508-4664

Da Library, 1526 Cole Boulevard at West Colfax Avenue, Golden, CO (Mail address: Stop 194, Box 25046, Federal Center, Denver, CO 80225)

Db Public Inquiries Office, Federal Building, Room 169, 1961 Stout Street, Denver, CO 80294

F Library, 2255 North Gemini Drive, Flagstaff, AZ 86001

LA Public Inquiries Office, Room 7638, Federal Building, 300 North Los Angeles Street, Los Angeles, CA 90012

M Library, 345 Middlefield Road, Menlo Park, CA 94025

NC Library, Room 4A100, National Center, 12201 Sunrise Valley Drive, Reston, VA 22092

S Public Inquiries Office, Room 678, U.S. Courthouse, West 920 Riverside Avenue, Spokane, WA 99201

SF Public Inquiries Office, Room 504, Customhouse, 555 Battery Street, San Francisco, CA 94111

T Public Inquiries Office, Room 1C45, Federal Building, 1100 Commerce Street, Dallas, TX 75242

U Public Inquiries Office, Room 8105, Federal Building, 125 South State Street, Salt Lake City, UT 84138

Wa Public Inquiries Office, 1951 Constitution Avenue NW, South Interior Building, Washington, DC 20405

Wb U.S. Department of the Interior, Natural Resources Library, Gifts and Exchange Section, 18th and C Streets, NW, Washington, DC 20240

MAP REFERENCE LIBRARIES

Most references cited in the GMI's, including those which are out of print, should be available for inspection in large public or university libraries. A library can usually borrow publications it does not have through the interlibrary loan system. The following libraries in Utah have collections of USGS products that may include geologic maps:

CEDAR CITY:
Southern Utah State College
LOGAN:
Utah State University
OGDEN:
Weber State College
PROVO:
Brigham Young University
SALT LAKE CITY:
Public Library
U.S. Geological Survey
Room 8105, Federal Building
University of Utah
Utah State Library

USGS OPEN-FILE REPORTS

Most USGS Open-File Reports (OF's) are only available from USGS Books and Open-File Reports (see address above). When ordering OF's, please use the OF number (not the ID number in this GMI) and full title. Note that OF's released before April 1974, which were not numbered when released, use the numbers assigned in the annual USGS circulars that listed OF's.

Superseded Open-File Reports

Superseded OF's are deleted from the Geologic Map Index; the new reports are indexed and they note in parentheses the OF's that were superseded. Superseded OF's are no longer available from USGS Books and Open-File Reports.

FURTHER INFORMATION

Information on very recently published geologic maps is available from

Geologic Inquiries Group
U.S. Geological Survey
907 National Center
Reston, VA 22092
Telephone 703/648-4383

Information on unpublished geologic maps and on other geologic, geophysical, geochemical, or other geoscience data for Utah is available from

Utah Geological Survey and Mineral Survey
606 Blackhawk Way
Salt Lake City, UT 84108-1280
801/581-6831

Additional information on geoscience data may be available from other sources, including the local USGS Water Resources Division District Office, State water resources agencies, county extension agents of the Soil Conservation Service, and County water resources agencies or planning commissions. Local chapters of professional geoscience societies may have guidebooks or other materials available. A large local library may be able to help you locate these sources of information.

ACKNOWLEDGMENTS

This index has benefited from reviews by the Utah Geological and Mineral Survey and the USGS Open-File Services Section. Also, the diligence of Ann France in bibliographic data entry and editing, and that of Yula Sakss in computer processing and final copy preparation, were very important in producing a GMI of high quality.

REFERENCES

Boardman, Leona, compiler, 1948, Geologic map index of Utah: U.S. Geological Survey Index to Geologic Mapping in the United States, No. 10, scale 1:750,000.

_____, 1954, Geologic map index of Utah: U.S. Geological Survey Index to Geologic Mapping in the United States, scale 1:750,000.

Fuller, H. K., 1984, Information selectivity applied to U.S. Geological Survey Geologic Map Index and the GEOINDEX data base, in Rowell, U. H., ed., Roles and responsibilities in geoscience information: Geoscience Information Society Proceedings, v. 14, p. 163-176.

Gaul, G. H., 1952a, Geologic index map of the State of Utah showing selected geological publications other than USGS: Utah Geological and Mineral Survey Reprint 29, plate VIII, scale 1:1,000,000.

_____, 1952b, Geologic index map of the State of Utah showing selected USGS publications: Utah Geological and Mineral Survey Reprint 28, plate VII, scale 1:1,000,000.

Hintz, L. F., and Boardman, Leona, compilers, 1964, Geologic map index of Utah: Utah Geological and Mineralogical Survey Map 19, 2 sheets, scale 1:1,000,000.

McIntosh, W. L., and Eister, M. F., 1979, Geologic map index of Utah: U.S. Geological Survey , 20 p.

BIBLIOGRAPHY

*1. Stokes, W.L., 1963, Geologic map of northwestern Utah: Utah Geological and Mineralogical Survey, scale 1:250,000.

*2. Stokes, W.L., and Madsen, J.H., 1961, Geologic map of Utah--northeast quarter: Utah Geological and Mineralogical Survey, scale 1:250,000.

*3. Hintze, L.F., and Stokes, W.L., 1964, Geologic map of southeastern Utah: Utah State Land Board, scale 1:250,000.

*4. Hintze, L.F., 1963, Geologic map of southwestern Utah: Utah State Land Board, scale 1:250,000.

*5. Hintze, L.F., compiler, 1963, Geologic map of southwestern Utah, in Guidebook to the geology of southwestern Utah--Transition between Basin-Range and Colorado Plateau provinces: Intermountain Association of Petroleum Geologists Guidebook, 12th Annual Field Conference, map, scale 1:250,000.

6. Woodruff, E.G., 1912, Geology of the San Juan oil field, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 471, p. 76-104, plate 8, scale 1:63,360.

*7. Peterson, J.A., ed., 1956, Geology and economic deposits of east-central Utah: Intermountain Association of Petroleum Geologists Guidebook, 7th Annual Field Conference, plate 1, scale 1:190,000.

8. Marshall, C.H., 1956, Photogeologic map of the Virgin NW quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-149, scale 1:24,000.

9. Gilbert, G.K., 1890, Lake Bonneville: U.S. Geological Survey Monograph 1, plate 32, 1:20,000, plate 35, scale 1:93,750.

10. Marshall, C.H., 1956, Photogeologic map of the Virgin SW quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-147, scale 1:24,000.

11. Spurr, J.E., 1895, Economic geology of the Mercur mining district: U.S. Geological Survey 16th Annual Report, pt. 2, plate 25, scale 1:125,000, plate 26, scale 1:18,000.

12. Sorensen, M.L., and Crittenden, M.D., Jr., 1972, Preliminary geologic map of part of the Wasatch Range near North Ogden, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-428, scale 1:24,000.

13. Crittenden, M.D., Jr., and Sorenson, M.L., 1985, Geologic map of the North Ogden quadrangle and part of the Ogden and Plain City quadrangles, Box Elder and Weber Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1606, scale 1:24,000.

14. Marshall, C.H., 1956, Photogeologic map of the Virgin NE quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-161, scale 1:24,000.

15. Huntington, Ellsworth, and Goldthwait, J.W., 1904, Hurricane fault in the Toquerville district: Harvard College Museum of Comparative Zoology Bulletin, v. 43, plate 7, scale 1:93,750.

16. Brown, R.S., 1952, Geology of the Payson Canyon area, southern Wasatch Mountains, Utah: Compass, v. 29, no. 4, fig. 1, scale 1:62,500.

17. Hackman, R.J., 1955, Photogeologic map of the Aneth-3 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-92, scale 1:24,000.

18. Weir, G.W., and Dodson, C.L., 1958, Preliminary geologic map of the Mount Peale 3 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-144, scale 1:24,000.

19. Tolbert, G.E., 1957, Photogeologic map of the Mount Peale-12 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-241, scale 1:24,000.

20. Reber, S.J., 1952, Precambrian exposures in southwest Utah, southeast Nevada, and northwest Arizona, in Cedar City, Utah, to Las Vegas Nevada: Utah Geological and Mineralogical Survey Guidebook to the Geology of Utah, No. 7, p. 43-44, plate 1 (Reber), scale 1:55,000.

21. Sumsion, C.T., 1970, Geology and water resources of the Spanish Valley area, Grand and San Juan Counties, Utah: U.S. Geological Survey Open-File Report 70-375, fig. 1, scale 1:62,500. (NC, U.)

22. Richardson, G.B., 1907, Underground water in Sanpete and central Sevier Valleys, Utah: U.S. Geological Survey Water-Supply Paper 199, plate 2, scale 1:250,000.

23. Pillmore, C.L., 1956, Photogeologic map of the Virgin SE quadrangle, Washington County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-179, scale 1:24,000.

24. Veatch, A.C., 1907, Geography and geology of a portion of southwestern Wyoming: U.S. Geological Survey Professional Paper 56, plate 3, scale 1:125,000.

25. Leith, C.K., and Harder, E.C., 1908, Iron ores of the Iron Springs district: U.S. Geological Survey Bulletin 338, plate 2, scale 1:62,500, plates 3-6, scale 1:6,000.

26. Cook, K.L., 1950, Magnetic surveys in the Iron Springs district, Iron County, Utah: U.S. Bureau of Mines Report of Investigations 4586, fig. 3, scale 1:36,000.

27. Gale, H.S., 1909, Coal fields of northwestern Colorado and northeastern Utah, in Contributions to economic geology, 1907: U.S. Geological Survey Bulletin 341, p. 283-315, plate 20, scale 1:250,000.

28. Gardner, L.S., 1952, The Hurricane fault, in Cedar City, Utah, to Las Vegas, Nevada: Utah Geological and Mineralogical Survey Guidebook to the Geology of Utah, No. 7, p. 15-21, plate 1 (Gardner), scale 1:170,000.

29. Pillmore, C.L., 1956, Photogeologic map of the Orderville Canyon NW quadrangle, Kane and Washington Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-188, scale 1:24,000.

30. Gale, H.S., 1910, Coal fields of northwestern Colorado and northeastern Utah: U.S. Geological Survey Bulletin 415, plate 21, scale 1:125,000.

31. Gale, H.S., and Richards, R.W., 1910, Phosphate deposits in southeastern Idaho and adjacent parts of Wyoming and Utah: U.S. Geological Survey Bulletin 430, plate 11, scale 1:62,500, plate 12, scale 1:62,500, plate 13, scale 1:62,500.

32. Blackwelder, Eliot, 1910, New light on the geology of the Wasatch Mountains: Geological Society of America Bulletin, v. 21, p. 517-542, fig. 5, scale 1:125,000, fig. 9, scale 1:125,000.

33. Boutwell, J.M., 1912, Geology and ore deposits of the Park City district: U.S. Geological Survey Professional Paper 77, plate 2, scale 1:25,000. Also mine maps.

34. Wilson, C.L., 1959, Park City mining district, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, Tenth Annual Field Conference, p. 182-188, fig. 2, scale 1:44,000.

35. Lupton, C.T., 1912, Deep Creek district of the Vernal coal field, Uintah County, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 471, p. 579-594, plate 60, scale 1:62,500.

36. Lupton, C.T., 1912, Blacktail (Tabby) Mountain coal field, Wasatch County, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 471, p. 595-628, plate 62, scale 1:62,500.

37. Pillmore, C.L., 1956, Photogeologic map of the Springdale SW quadrangle, Kane and Washington Counties, Utah, and Mohave County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-132, scale 1:24,000.

38. Butler, B.S., 1913, Geology and ore deposits of the San Francisco and adjacent districts: U.S. Geological Survey Professional Paper 80, plate 1, scale 1:62,500.

39. Threet, R.L., 1963, Geology of the Parowan Gap area, Iron County, Utah, in Guidebook to the geology of southwestern Utah--Transition between Basin-Range and Colorado Plateau provinces: Intermountain Association of Petroleum Geologists Guidebook, 12th Annual Field Conference, p. 136-145, fig. 1, scale 1:100,000, fig. 2, scale 1:44,000.

40. Miller, G.M., 1963, Outline of structural-stratigraphic units of the Wah Wah Mountains, southwest Utah, in Guidebook to the geology of southwestern Utah--Transition between Basin-Range and Colorado Plateau provinces: Intermountain Association of Petroleum Geologists Guidebook, 12th Annual Field Conference, p. 96-103, fig. 3, scale 1:185,000.

41. Pillmore, C.L., 1956, Photogeologic map of the Springdale NE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-148, scale 1:24,000.

42. Lupton, C.T., 1914, Oil and gas near Green River, Grand County, Utah, in Contributions to economic geology, 1912: U.S. Geological Survey Bulletin 541, p. 115-134, plate 6, scale 1:125,000.

*43. Sanborn, A.F., ed., 1958, Guidebook to the geology of the Paradox Basin: Intermountain Association of Petroleum Geologists Guidebook, 9th Annual Field Conference, plate, scale 1:210,000.

44. Walton, P.T., 1959, Structure of the West Portal-Soldier Summit area, Wasatch, Carbon, and Duchesne Counties, Utah, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, Tenth Annual Field Conference, p. 150-152, plate 1, scale 1:155,000.

45. Baker, A.A., 1959, Faults in the Wasatch Range near Provo, Utah, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, Tenth Annual Field Conference, p. 153-158, fig. 2, scale 1:215,000.

46. Coffin, R.C., 1921, Radium, uranium, and vanadium deposits of southwestern Colorado: Colorado Geological Survey Bulletin 16, plate 1, scale 1:125,000.

47. Butler, B.S., and Loughlin, G.F., 1916, Reconnaissance of the Cottonwood-American Fork mining region, Utah: U.S. Geological Survey Bulletin 620, plate 6, scale 1:50,000.

48. Loughlin, G.F., 1916, Alunite developments near Marysvale and Beaver, Utah: U.S. Geological Survey Bulletin 620, fig. 15, scale 1:9,000.

49. Lupton, C.T., 1916, Geology and coal resources of Castle Valley in Carbon, Emery, and Sevier Counties, Utah: U.S. Geological Survey Bulletin 628, plate 12, scale 1:125,000.

50. Schell, E.M., and Dyni, J.R., 1973, Preliminary geologic strip maps of the Park City and Phosphoria formations, Vernal phosphate area, Uintah County, Utah: U.S. Geological Survey Open-File Report 73-248, scale 1:24,000. (NC, Da, M, Db, U.)

51. Anderson, R.E., 1984, Cenozoic structural history of selected areas in the eastern Great Basin, Nevada-Utah: U.S. Geological Survey Open-File Report 83-504, plate 1, Conger Range, scale 1:24,000, plate 2, north Confusion Range, scale 1:24,000, fig. 2, Jensen Wash area, scale 1:62,500. (NC, Da, M, Db, U, S, SF, LA; NV, UT surveys.)

52. Tower, G.W., Jr., and Smith, G.O., 1899, Geology and mining industry of the Tintic district: U.S. Geological Survey 19th Annual Report, pt. 3, plate 74, scale 1:62,500, plate 76, scale 1:9,600.

53. Lindgren, Waldemar, and Loughlin, G.F., 1919, Geology and ore deposits of the Tintic mining district, Utah: U.S. Geological Survey Professional Paper 107, plate 1, scale 1:62,500, plate 4, scale 1:9,600. Also mine maps.

54. Farmin, Rollin, 1934, "Pebble dikes" and associated mineralization at Tintic, Utah: Economic Geology, v. 29, fig. 4, scale 1:6,000.

55. Loughlin, G.F., 1919, Two lamprophyre dikes near Santaquin and Mount Nebo, Utah, in Shorter contributions to general geology, 1918: U.S. Geological Survey Professional Paper 120, p. 101-110, fig. 13, scale 1:200,000.

56. Pillmore, C.L., 1956, Photogeologic map of the Springdale SE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-131, scale 1:24,000.

57. Clark, F.R., 1919, Geology of the Lost Creek coal field, Morgan County, Utah: U.S. Geological Survey Bulletin 691, plate 40, scale 1:62,500.

58. Schultz, A.R., 1920, Oil possibilities in and around Baxter Basin in the Rock Springs uplift, Sweetwater County, Wyoming: U.S. Geological Survey Bulletin 702, plate 1, scale 1:250,000.

59. Clark, F.R., 1920, The Farnham anticline, Carbon County, Utah: U.S. Geological Survey Bulletin 711, plate 1, scale 1:62,500.

60. Miller, C.F., 1955, Photogeologic map of the Bluff-8 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-61, scale 1:24,000.

61. Bassler, Harvey, and Reeside, J.B., Jr., 1922, Oil prospects in Washington County, Utah, in Contributions to economic geology, 1921: U.S. Geological Survey Bulletin 726-C, p. 87-108, fig. 11, scale 1:62,500, fig. 12, scale 1:62,500.

62. Erickson, M.P., 1966, Igneous complex at Wah Wah Pass, Beaver County, Utah: Utah Geological and Mineralogical Survey Special Studies 17, plate 1, scale 1:18,000.

63. Hackman, R.J., 1955, Photogeologic map of the Aneth-6 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-95, scale 1:24,000.

64. Hackman, R.J., 1955, Photogeologic map of the Aneth-2 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-91, scale 1:24,000.

65. Piper, A.M., 1923, Geology and water resources of the Goose Creek Basin, Cassia County, Idaho: Idaho Bureau of Mines and Geology Bulletin 6, plate 1, scale 1:125,000.

66. Miser, H.D., 1924, The San Juan Canyon, southeastern Utah--A geographic and hydrographic reconnaissance: U.S. Geological Survey Water-Supply Paper 538, plate 15, scale 1:125,000.

67. Miser, H.D., 1924, Geologic structure of San Juan Canyon and adjacent country, Utah, in Contributions to economic geology, 1923-1924: U.S. Geological Survey Bulletin 751, p. 115-156, plate 15, scale 1:125,000.

68. Pillmore, C.L., 1956, Photogeologic map of the Kanab SW quadrangle, Kane County, Utah, and Mohave County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-138, scale 1:24,000.

69. Detterman, J.S., 1956, Photogeologic map of the Kanab SE quadrangle, Kane County, Utah, and Mohave and Coconino Counties, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-137, scale 1:24,000.

70. Orkild, P.P., 1957, Photogeologic map of the Rainbow Point SW quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-257, scale 1:24,000.

71. Gould, L.M., 1926, The geology of La Sal Mountains of Utah: Michigan Academy of Sciences, Papers, v. 7, map 3, scale 1:125,000.

72. Olson, R.H., 1956, Geology of Promontory Range: Utah Geological Society Guidebook, no. 11, fig. 11, scale 1:70,000.

73. Clark, F.R., 1928, Economic geology of the Castlegate, Wellington, and Sunnyside quadrangles, Carbon County, Utah: U.S. Geological Survey Bulletin 793, plate 22, scale 1:62,500.

74. Spieker, E.M., and Baker, A.A., 1928, Geology and coal resources of the Salina Canyon district, Sevier County, Utah, in Contributions to economic geology, 1927: U.S. Geological Survey Bulletin 796-C, p. 125-170, plate 22, scale 1:62,500, figs. 9 and 10, scale 1:31,680.

75. Stillman, F.B., 1928, A reconnaissance of the Wasatch front between Alpine and American Fork Canyons, Utah: Journal of Geology, v. 36, no. 1, fig. 1, scale 1:125,000, fig. 4, scale 1:6,600.

76. Gilluly, James, 1929, Geology and oil and gas prospects of part of the San Rafael Swell, Utah, in Contributions to economic geology, 1928: U.S. Geological Survey Bulletin 806-C, p. 69-130, plate 30, scale 1:126,720.

77. Reagan, A.B., 1929, Geology of the Deep Creek Reservation and its environs: Kansas Academy of Sciences, Transactions, v. 32, map p. 105, scale 1:187,500.

78. Spieker, E.M., 1931, The Wasatch Plateau coal field, Utah: U.S. Geological Survey Bulletin 819, plates 31-33, scale 1:62,500.

79. Scott, R.W., Jr., and Pantea, M.P., 1986, Preliminary geologic map of the Wolf Point quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1939, scale 1:24,000.

80. Gregory, H.E., and Moore, R.C., 1931, The Kaiparowits region, a geographic and geologic reconnaissance of parts of Utah and Arizona: U.S. Geological Survey Professional Paper 164, plate 2, scale 1:250,000, plate 24, scale 1:42,240.

81. Peterson, Fred, and Barnum, B.E., 1973, Geologic map and coal resources of the northwest quarter of the Cummings Mesa quadrangle, Kane County, Utah: U.S. Geological Survey Coal Investigations Map C-64, scale 1:24,000.

82. Gilluly, James, 1932, Geology and ore deposits of the Stockton and Fairfield quadrangles: U.S. Geological Survey Professional Paper 173, plate 12, scale 1:62,500.

83. Bissell, H.J., (ed.), 1959, Geology of the Southern Oquirrh Mountains and Fivemile Pass-Northern Boulter Mountain area, Tooele and Utah Counties, Utah: Utah Geological Society Guidebook to the Geology of Utah, no. 14, plate 1, scale 1:32,000.

84. Murphey, B.E., Beus, S.S., and Oviatt, C.G., 1985, Provisional geologic map of the Limekiln Knoll quadrangle, Box Elder County, Utah: Utah Geological and Mineral Survey Map 79, plate 1, scale 1:24,000.

85. Baker, A.A., 1933, Geology and oil possibilities of the Moab district, Grand and San Juan Counties, Utah: U.S. Geological Survey Bulletin 841, plate 1, scale 1:62,500.

86. Felix, C.E., 1956, Geology of the eastern part of the Raft River Range, Box Elder County, Utah and Cassia County, Idaho: Utah Geological Society Guidebook, no. 11, p. 76-97, fig. 14, scale 1:67,500.

87. Boutwell, J.M., 1933, Salt Lake region: 16th International Geologic Congress Guidebook 17, plate 5, scale 1:48,000, plate 12 and fig. 15, scale 1:62,500, figs. 19 and 21, scale 1:24,000, plate 18, scale 1:187,500, plate 19, scale 1:250,000.

88. Mapel, W.J., and Hail, W.J., Jr., 1959, Tertiary geology of the Goose Creek district, Cassia County, Idaho, Box Elder County, Utah, and Elko County, Nevada: U.S. Geological Survey Bulletin 1055-H, plate 46, scale 1:63,360.

89. Mapel, W.J., and Hail, W.J., Jr., 1956, Tertiary stratigraphy of the Goose Creek district, Cassia County, Idaho, and adjacent parts of Utah and Nevada: Utah Geological Society Guidebook, no. 11, p. 1-16, fig. 2, scale 1:63,360.

90. Pomeroy, J.S., 1957, Photogeologic map of the Rainbow Point SE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-258, scale 1:24,000.

91. Eardley, A.J., 1934, Structure and physiography of the southern Wasatch Mountains: Michigan Academy of Sciences, Papers, v. 19, map 11, scale 1:125,000.

92. Dane, C.H., 1935, Geology of the Salt Valley anticline and adjacent areas, Grand County, Utah: U.S. Geological Survey Bulletin 863, plate 1, scale 1:62,500.

93. Nolan, T.B., 1935, The Gold Hill mining district, Utah: U.S. Geological Survey Professional Paper 177, plate 1, scale 1:62,500, plate 2, scale 1:24,000. Also mine maps.

94. Hackman, R.J., 1955, Photogeologic map of the Aneth-7 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-96, scale 1:24,000.

95. Fisher, D.J., 1936, Book Cliffs coal field in Emery and Grand Counties, Utah: U.S. Geological Survey Bulletin 852, plates 8-11, scale 1:62,500.

96. Baker, A.A., 1936, Geology of the Monument Valley-Navajo Mountain region, San Juan County, Utah: U.S. Geological Survey Bulletin 865, plate 1, scale 1:96,000.

97. Bradley, W.H., 1936, Geomorphology of the north flank of the Uinta Mountains: U.S. Geological Survey Professional Paper 185-I, plate 34, scale 1:250,000.

98. Stugard, Frederick, Jr., 1951, Uranium resources in the Silver Reef (Harrisburg) district, Washington County, Utah: U.S. Geological Survey Open-File Report 51-41, plate 1, scale 1:31,680. (NC.) Also larger scale maps.

99. Proctor, P.D., 1953, Geology of the Silver Reef (Harrisburg) mining district, Washington County, Utah: Utah Geological and Mineral Survey Bulletin 44, plate 1, scale 1:67,000, plate 2, scale 1:14,400.

100. Willis, G.C., 1986, Provisional geologic map of the Sego Canyon quadrangle, Grand County, Utah: Utah Geological and Mineral Survey Map 89, plate 1, scale 1:24,000.

101. Gregory, H.E., 1938, The San Juan Country--A geographic and geologic reconnaissance of southeastern Utah: U.S. Geological Survey Professional Paper 188, plate 17, scale 1:93,750.

102. Willis, G.C., 1986, Geologic map of the Salina quadrangle, Sevier County, Utah: Utah Geological and Mineral Survey Map 83, plate 1, scale 1:24,000.

103. Wells, F.G., 1941, Iron ore deposits of the Bull Valley District, Washington County, Utah: U.S. Geological Survey Open-File Report 41-22, map, scale 1:50,000.

104. Hackman, R.J., 1957, Photogeologic map of the Buckskin Gulch SW quadrangle, Kane County, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-244, scale 1:24,000.

105. Dobbin, C.E., 1939, Geologic structure of St. George district, Washington County, Utah: American Association of Petroleum Geologists Bulletin, v. 23, no. 2, fig. 11, scale 1:62,500.

106. Kramer, W.B., 1938, Geologic and structure contour map of the Bloomington dome: U.S. Geological Survey map, scale 1:62,500.

107. Gregory, H.E., 1939, A geologic and geographic sketch of Zion National Park: Zion-Bryce Museum Bulletin 3, fig. 8, scale 1:250,000.

108. McKnight, E.T., 1940, Geology of the area between Green and Colorado Rivers, Grand and San Juan Counties, Utah: U.S. Geological Survey Bulletin 903, plate 1, scale 1:62,500.

109. Hackman, R.J., 1957, Photogeologic map of Buckskin Gulch NE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-259, scale 1:24,000.

110. Minard, J.P., 1957, Photogeologic map of the Buckskin Gulch SE quadrangle, Kane County, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-260, scale 1:24,000.

111. Spieker, E.M., and Billings, M.P., 1940, Glaciation in the Wasatch Plateau, Utah: Geological Society of America Bulletin, v. 51, no. 8, plate 5, scale 1:125,000.

112. Richardson, G.B., 1941, Geology and mineral resources of the Randolph quadrangle: U.S. Geological Survey Bulletin 923, plate 1, scale 1:125,000.

113. Lamerson, P.R., 1982, The Fossil Basin area and its relationship to the Absaroka thrust fault system, in Geologic studies of the Cordilleran thrust belt: Rocky Mountain Association of Geologists, p. 279-340, plate 1-A, northern, scale 1:200,000, plate 1-B, southern, scale 1:200,000, fig., 27, Evanston area, scale 1:100,000.

114. Olson, A.B., 1957, Photogeologic map of the Paria SW quadrangle, Kane County, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-263, scale 1:24,000.

115. Peterson, V.E., 1942, Geology and ore deposits of the Ashbrook silver mining district: Economic Geology, v. 37, no. 6, fig. 1, scale 1:31,680.

116. McIntosh, W.L., 1958, Photogeologic map of the Cockscomb SE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-275, scale 1:24,000.

117. McQueen, Kathleen, 1958, Photogeologic map of the Paria NE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-266, scale 1:24,000.

118. Miller, C.F., 1955, Photogeologic map of the Elk Ridge-16 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-63, scale 1:24,000.

119. Fischer, R.P., 1944, Vanadium region of southwestern Colorado and southeastern Utah: U.S. Geological Survey Preliminary Map, scale 1:187,000.

120. Duncan, D.C., 1944, The Mount Pleasant coal field, Sanpete County, Utah: U.S. Geological Survey Coal Investigations Map, scale 1:36,000.

121. Doelling, H.M., 1985, Geologic map of the Arches National Park and vicinity, Grand County, Utah: Utah Geological and Mineral Survey Map 74, plate, scale 1:50,000.

122. Eardley, A.J., 1944, Geology of the north-central Wasatch Mountains, Utah: Geological Society of America Bulletin, v. 55, no. 7, plate 1, scale 1:125,000, plate 2, scale 1:62,500.

123. Hackman, R.J., 1955, Photogeologic map of the Aneth-4 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-93, scale 1:24,000.

124. Willard, M.E., Kelley, V.C., and Callaghan, Eugene, 1945, Winkelman alunite deposit, Marysvale: U.S. Geological Survey Preliminary Map, plate 1, scale 1:2,400.

125. Stokes, W.L., and Fischer, R.P., 1945, Vanadium deposits in the Gateway area, Mesa County, Colorado, and the adjoining part of Grand County, Utah: U.S. Geological Survey Open-File Report 45-99, scale 1:63,360.

126. Dobbin, C.E., 1945, Geologic and structure contour map of the Clay Basin gas field and vicinity, Daggett County, Utah, and Sweetwater County, Wyoming: U.S. Geological Survey map, scale 1:31,680.

127. Detterman, J.S., 1956, Photogeologic map of the Kaiparowits Peak-2 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-135, scale 1:24,000.

128. Willard, M.E., 1945, Manning Creek alunite deposit, Marysvale, Utah: U.S. Geological Survey Preliminary Strategic Map 3-192, scale 1:4,800.

129. Dennis, P.E., Maxey, G.B., and Thomas, H.E., 1946, Ground water in Pavant Valley, Millard County, Utah: Utah State Engineer Technical Publication 3, plate 1, scale 1:62,500.

*130. Andrews, D.A., and Hunt, C.B., 1948, Geologic map of eastern and southern Utah: U.S. Geological Survey Oil and Gas Investigations Map OM-70, scale 1:500,000.

131. Detterman, J.S., 1956, Photogeologic map of the Kaiparowits Peak-1 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-134, scale 1:24,000.

132. Thomas, H.E., 1946, Ground water in Tooele Valley, Tooele County: Utah State Engineer Technical Publication 4, 25th Biennial Report, plate 1, scale 1:62,500.

133. Maxey, G.B., 1946, Geology of part of the Pavant Range: American Journal of Science, v. 244, plate 1, scale 1:200,000.

134. Hunt, C.B., 1946, Guidebook to the geology and geography of the Henry Mountains region: Utah Geological Society Guidebook 1, fig. 10, scale 1:62,500, fig. 11, scale 1:93,570.

135. Siders, M.A., 1985, Geologic map of the Beryl Junction quadrangle, Iron County, Utah: Utah Geological and Mineral Survey Map 85, plate 1, scale 1:24,000.

136. Siders, M.A., 1985, Geologic map of the Pinon Point quadrangle, Iron County, Utah: Utah Geological and Mineral Survey Map 84, plate 1, scale 1:24,000.

137. Baker, A.A., 1946, Geology of the Green River Desert-Cataract Canyon region, Emery, Wayne, and Garfield Counties, Utah: U.S. Geological Survey Bulletin 951, plates 1 and 2, scale 1:62,500.

138. Gregory, H.E., and Williams, N.C., 1947, Zion National Monument, Utah: Geological Society of America Bulletin, v. 58, no. 8, plate 1, scale 1:63,360.

139. Huddle, J.W., and McCann, F.T., 1947, Geologic map of Duchesne River area, Wasatch and Duchesne Counties: U.S. Geological Survey Oil and Gas Investigations Map OM-75, scale 1:62,500.

140. Thomas, H.E., and Taylor, G.H., 1947, Geology and ground-water resources of Cedar City and Parowan Valleys, Iron County, Utah: U.S. Geological Survey Water-Supply Paper 993, plate 3, scale 1:62,500.

141. Kinney, D.M., and Romingen, J.F., 1947, Geology of the Whiterocks River-Ashley Creek area, Uintah County, Utah: U.S. Geological Survey Oil and Gas Investigations Map OM-82, scale 1:62,500.

142. Mackin, J.H., 1947, Some structural features of the intrusions in the Iron Springs district: Utah Geological Society Guidebook 2, fig. 2, scale 1:20,000, fig. 12, scale 1:24,000.

143. Crittenden, M.D., Jr., Calkins, F.C., and Sharp, B.J., 1966, Geologic map of the Park City West quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-535, scale 1:24,000.

144. Eldridge, G.H., 1896, Uintaite (gilsonite) deposits of Utah: U.S. Geological Survey 17th Annual Report, pt. 1, plate 60, scale 1:250,000.

145. Gregory, H.E., 1948, Geology and geography of central Kane County, Utah: Geological Society of America Bulletin, v. 59, no. 3, p. 211-248, plate 1, scale 1:125,000.

146. Williams, J.S., 1948, Geology of the Paleozoic rocks, Logan quadrahgle, Utah: Geological Society of America Bulletin, v. 59, no. 11, plate 1, scale 1:125,000.

147. Holmes, C.N., Page, B.M., and Averitt, Paul, 1948, Geology of the bituminous sandstone deposits near Sunnyside, Carbon County, Utah: U.S. Geological Survey Oil and Gas Investigations Preliminary Map 86, fig. 1, scale 1:6,000, fig. 2, scale 1:23,760.

148. Hackman, R.J., 1955, Photogeologic map of the Aneth-5 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-94, scale 1:24,000.

149. McQueen, Kathleen, and Ray, R. G., 1958, Photogeologic map of the Paria NW quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-268, scale 1:24,000.

150. Byers, F.M., Duncan, D.C., and Myers, W.H., 1949, Antimony deposits of Antimony Canyon, Garfield County, Utah: U.S. Geological Survey Open-File Report 49-10, fig. 1, scale 1:600, plate 3, scale 1:1,200, plates 1 and 2, scale 1:600.

151. Sanderson, I.D., and Wiley, M.T., 1986, The Jesse Ewing Canyon Formation, an interpreted alluvial fan deposit in the basal Uinta Mountain Group (Middle Proterozoic), Utah: Rocky Mountain Association of Geologists, The Mountain Geologist, v. 23, no. 3, p. 77-89, fig. 1, scale 1:26,000.

152. Spieker, E.M., 1949, Transition between the Colorado Plateaus and the Great Basin in central Utah: Utah Geological Society Guidebook 4, plate 1, scale 1:125,000.

153. Thomas, H.E., and Nelson, W.B., 1949, Ground water in the east shore area, Part 1, Bountiful district, Davis County: Utah State Engineer Technical Publication 5, 26th Biennial Report, plate 1, scale 1:31,680.

154. Frey, Eugene, and Wilson, S.R., 1949, Investigation of the Huber-Rydalch manganese deposits, Tooele County, Utah: U.S. Bureau of Mines Report of Investigations 4601, fig. 2, scale 1:1,800.

155. Gregory, H.E., 1949, Geologic and geographic reconnaissance of eastern Markagunt Plateau, Utah: Geological Society of America Bulletin, v. 60, no. 6, plate 1, scale 1:62,500.

156. Nielson, D.L., Evans, S.H., Jr., and Sibbett, B.S., 1986, Magmatic, structural and hydrothermal evolution of the Mineral Mountains intrusive complex, Utah: Geological Society of America Bulletin, v. 97, p. 765-777, fig. 2, scale 1:160,000, fig. 4, scale 1:58,000, fig. 5, scale 1:60,000.

157. Gregory, H.E., 1950, Geology of eastern Iron County, Utah: Utah Geological and Mineral Survey Bulletin 37, plate 2, scale 1:63,360.

158. Rowley, P.D., Williams, P.L., and Kaplan, A.M., 1986, Geologic map of the Greenwich quadrangle, Piute County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1589, scale 1:24,000.

159. Rowley, P.D., Williams, P.L., and Kaplan, A.M., 1986, Geologic map of the Koosharem quadrangle, Sevier and Piute Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1590, scale 1:24,000.

160. Steven, T.A., and Cunningham, C.G., 1979, Clinoptilolite resources in the Tushar Mountains, west-central Utah: U.S. Geological Survey Open-File Report 79-535, fig. 2, scale 1:24,000. (NC, Da, M, Db, U.)

161. Stringham, B.F., and Sharp, B.J., 1950, Fox clay deposit, Utah: American Journal of Science, v. 248, p. 726-733, map p. 729, scale 1:28,000.

162. Fix, P.F., and others, 1950, Ground water in Escalante Valley, Beaver, Iron, and Washington Counties: Utah State Engineer Technical Publication 6, 27th Biennial Report, plate 8, scale 1:125,000.

163. Hintze, L.F., 1986, Geologic map of the Mormon Gap and Tweedy Wash quadrangles, Millard County, Utah, and Lincoln and White Pine Counties, Nevada: U.S. Geological Survey Miscellaneous Field Studies Map MF-1872, scale 1:24,000.

164. Detterman, J.S., 1955, Photogeologic map of the Kaiparowits Peak-8 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-14, scale 1:24,000.

165. Dodd, P.P., 1950, Happy Jack mine, White Canyon: U.S. Atomic Energy Commission RMO-660, plate 2, scale 1:12,000.

166. Gregory, H.E., 1950, Geology and geography of the Zion Park region, Utah and Arizona: U.S. Geological Survey Professional Paper 220, plate 2, scale 1:125,000.

167. Schoff, S.L., 1951, Geology of the Cedar Hills, Utah: Geological Society of America Bulletin, v. 62, no. 6, p. 619-646, plate 3, scale 1:125,000.

168. Kinkel, A.R., Jr., and Granger, A.E., 1951, Preliminary report on the Apex and Paymaster mines, Washington County, Utah: U.S. Geological Survey Open-File Report 51-1, fig. 1, scale 1:1,200, fig. 3, scale 1:360. (U.)

169. Witkind, I.J., and Weiss, M.P., 1985, Geologic map of the Nephi 30' x 60' quadrangle, Carbon, Emery, Juab, Sanpete, Utah, and Wasatch Counties, Utah: U.S. Geological Survey Open-File Report 85-466, plate 1, scale 1:100,000. (NC, Da, M, Db, U; Utah survey.)

170. Huddle, J.W., Mapel, W.J., and McCann, F.T., 1951, Geology of the Moon Lake area, Duchesne County, Utah: U.S. Geological Survey Oil and Gas Investigations Map OM-115, scale 1:62,500.

171. Kinney, D.M., 1951, Geology of the Uinta River and Brush Creek-Diamond Mountain areas, Duchesne and Uintah Counties, Utah: U.S. Geological Survey Oil and Gas Investigations Map OM-123, scale 1:63,360.

172. Best, M.G., Kowallis, B.J., Willis, J.B., and Best, V.C., 1986, Geologic map and sections of northern White Rock Mountains-Hamlin Valley area, Beaver County, Utah, and Lincoln County, Nevada: U.S. Geological Survey Open-File Report 86-114, scale 1:50,000. (NC, Da, M, Db, U, SF, LA; Arizona and Utah surveys.)

173. Anderson, R.E., 1980, Notes on the Cenozoic structural history of the Tunnel Spring Mountains area, western Millard County, Utah: U.S. Geological Survey Open-File Report 80-237, plate 1, southern part, scale 1:24,000, fig. 2, Tunnel Spring Mts., scale 1:45,000. (NC, Da, M, U.)

174. Gregory, H.E., 1951, Geology and geography of the Paunsaugunt region, Utah: U.S. Geological Survey Professional Paper 226, plate 1, scale 1:62,500, plate 4, scale 1:31,680.

175. Zeller, H.D., 1973, Geologic map and coal and oil resources of the Canaan Creek quadrangle, Garfield County, Utah: U.S. Geological Survey Coal Investigations Map C-57, scale 1:24,000.

176. Calderwood, K.W., 1951, Geology of the Cedar Valley Hills area, Lake Mountain, Utah: Compass, v. 29, no. 1, fig. 1, scale 1:42,240.

177. Bullock, K.C., 1951, Geology of Lake Mountain, Utah: Utah Geological and Mineral Survey Bulletin 41, plate 2, scale 1:187,500, plate 3, scale 1:48,000.

178. Gilliland, W.N., 1951, Geology of the Gunnison quadrangle, Utah: Nebraska University Studies, new series, no. 8, plate 11, scale 1:62,500.

179. Abbott, W.O., 1951, Cambrian diabase flow in central Utah: Compass, v. 29, no. 1, fig. 1, scale 1:40,000.

180. Hodgson, R.A., 1951, Geology of the Wasatch Mountain front in the vicinity of Spanish Fork Canyon, Utah: Compass, v. 29, no. 1, fig. 1, scale 1:62,500.

181. Hoffman, F.H., 1951, Geology of the Mosida Hills area, Utah: Compass, v. 29, no. 1, fig. 1, scale 1:48,000.

182. Okerlund, M.D., 1951, Geology of the Calcite-aragonite deposits of Lake Mountain: Compass, v. 29, no. 1, fig. 1, scale 1:36,000.

183. Price, J.R., 1951, Stratigraphy and structure of the Slate Jack Canyon area, Long Ridge, Utah: Compass, v. 29, no. 1, fig. 1, scale 1:50,000.

184. Reber, S.J., 1951, Stratigraphy and structure of the south-central and northern Beaver Dam Mountains, Utah: Compass, v. 29, no. 1, fig. 1, scale 1:187,500.

185. Williams, F.E., 1951, Geology of the north Selma Hills area, Utah: Compass, v. 29, no. 1, fig. 1, scale 1:50,000.

186. Stugard, Frederick, Jr., and Wyant, D.G., 1951, Indian Creek uranium prospects, Beaver County, Utah: U.S. Geological Survey Open-File Report 51-24, fig. 2, scale 1:1,200. (NC, Db, U; Utah survey.)

187. Kaiser, E.P., 1952, Papsy's Hope autunite prospect, Marysvale district, Piute County, Utah: U.S. Geological Survey Report TEM-145a, fig. 2, scale 1:2,400.

188. Brophy, G.P., and Kerr, P.F., 1951, Preliminary memorandum, Papsy's Hope prospect, Marysvale, Utah: U.S. Atomic Energy Commission RMO-833, fig. 4, scale 1:4,200.

189. Detterman, J.S., 1955, Photogeologic map of the Circle Cliffs-4 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-20, scale 1:24,000.

190. Woolard, L.E., and Kerr, P.F., 1951, Preliminary memorandum on the Dark Horse and Saturday areas, Marysvale, Utah: U.S. Atomic Energy Commission RMO-860, plate 1, scale 1:5,400.

191. Brooke , G.L., Shirley, R.F., and Swanson, M.A., 1951, Geological investigation of the Trachyte district, Henry Mountains: U.S. Atomic Energy Commission RMO-912, map p. 7, scale 1:24,000.

192. Stokes, W.L., ed., 1951, Geology of the Canyon, House, and Confusion Ranges, Millard County, Utah: Utah Geological and Mineralogical Survey Guidebook 6, plate 2, scale 1:187,500. Also other maps.

193. Detterman, J.S., 1955, Photogeologic map of the Circle Cliffs-5 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-21, scale 1:24,000.

194. Hunt, C.B., 1952, Geologic map of the Henry Mountains region, Utah: U.S. Geological Survey Oil and Gas Investigations Map OM-131, scale 1:125,000.

195. Baker, A.A., Duncan, D.C., and Hunt, C.B., 1952, Manganese deposits of southeastern Utah: U.S. Geological Survey Bulletin 979-B, plate 2, scale 1:62,500, plate 3, scale 1:12,000.

196. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-12 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-52, scale 1:24,000.

197. Bissell, H.J., 1952, Stratigraphy and structure of northeast Strawberry Valley quadrangle, Utah: American Association of Petroleum Geologists Bulletin, v. 36, no. 4, p. 575-634, figs. 2 and 3, scale 1:88,000.

198. Christiansen, F.W., 1951, A summary of the structure and stratigraphy of the Canyon Range, in Geology of the Canyon, House, and Confusion Ranges, Millard County, Utah: Utah Geological and Mineralogical Survey Guidebook to the Geology of Utah, No. 6, p. 5-18, plate 1, scale 1:63,360.

199. Christiansen, F.W., 1952, Structure and stratigraphy of the Canyon Range, central Utah: Geological Society of America Bulletin, v. 63, no. 7, plate 1, scale 1:62,500.

200. Shoemaker, E.M., 1952, Preliminary geologic map of the Sinbad Valley-Fisher Valley anticline, Colorado and Utah: U.S. Geological Survey Open-File Report 52-138, scale 1:31,680. (NC, Db, U.)

201. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-6 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-22, scale 1:24,000.

202. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-11 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-27, scale 1:24,000.

203. Miller, C.F., 1955, Photogeologic map of the Bluff-1 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-64, scale 1:24,000.

204. Woolard, L.E., and Kerr, P.F., 1952, Preliminary memorandum on the Beaver Creek area, Marysvale: U.S. Atomic Energy Commission RMO-885, fig. 1, scale 1:40,000, map p. 15, scale 1:4,800.

*205. Thune, H.W., ed., 1952, Cedar City, Utah, to Las Vegas, Nevada: Utah Geological and Mineralogical Survey Guidebook 7, general plate 1, scale 1:500,000.

206. Marshall, R.E., 1952, Geology of the central Wasatch Mountains: Utah Geological and Mineralogical Survey Guidebook 8, plate 1, scale 1:62,500.

207. Smith, J.F., Jr., Hinrichs, E.N., and Luedke, R.G., 1952, Progress report on geologic studies in the Capitol Reef area, Wayne County, Utah: U.S. Geological Survey Open-File Report 52-191, fig. 3, scale 1:62,500. (NC.)

208. Rigby, J.K., 1952, Geology of the Selma Hills, Utah County: Utah Geological and Mineralogical Survey Bulletin 45, fig. 4, scale 1:62,500, fig. 13, scale 1:24,000, figs. 14 and 16, scale 1:18,000, fig. 17, scale 1:24,000.

209. Hardy, C.T., 1952, Eastern Sevier Valley, Sevier and Sanpete Counties, Utah, with reference to formations of Jurassic age: Utah Geological and Mineralogical Survey Bulletin 43, plate 4, scale 1:200,000, plate 5, scale 1:62,500, plate 8, scale 1:62,500.

210. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-14 quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-29, scale 1:24,000.

211. Kent, B.H., 1955, Photogeologic map of the Straight Cliffs-3 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-13, scale 1:24,000.

212. Carswell, L.D., and Davidson, E.S., 1958, Preliminary geologic map of the Circle Cliffs 1 NW quadrangle, Garfield County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-154, scale 1:24,000. Supersedes Map I-18.

213. Carswell, L.D., Davidson, E.S., and Miller, G.A., 1958, Preliminary geologic map of the Circle Cliffs 1 SW quadrangle, Garfield County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-155, scale 1:24,000. Supersedes Map I-23.

214. Detterman, J.S., 1955, Photogeologic map of the Straight Cliffs-2 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-37, scale 1:24,000.

215. Kent, B.H., 1955, Photogeologic map of the Straight Cliffs-7 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-39, scale 1:24,000.

216. Davidson, E.S., Brew, D.A., and Carswell, L.D., 1958, Preliminary geologic map of the Circle Cliffs 1 SE quadrangle, Garfield County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-156, scale 1:24,000. Supersedes Map I-24.

217. Sable, V.H., 1955, Photogeologic map of the Straight Cliffs-1 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-40, scale 1:24,000.

*218. Gregory, H.E., 1916, The Navajo country--A geographic and hydrographic reconnaissance of parts of Arizona, New Mexico, and Utah: U.S. Geological Survey Water-Supply Paper 380, plate 2, scale 1:500,000.

*219. Gregory, H.E., 1917, Geology of the Navajo Country: U.S. Geological Survey Professional Paper 93, plate 2, scale 1:500,000.

220. Hackman, R.J., 1955, Photogeologic map of the Mt. Pennell-5 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-46, scale 1:24,000.

221. Detterman, J.S., 1955, Photogeologic map of the Mt. Pennell-12 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-48, scale 1:24,000.

222. Detterman, J.S., 1955, Photogeologic map of the Mt. Pennell-13 quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-49, scale 1:24,000.

223. Detterman, J.S., 1955, Photogeologic map of the Navajo Mountains-4 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-43, scale 1:24,000.

224. Beroni, E.P., McKeown, F.A., Stugard, Frederick, Jr., and Gott, G.B., 1953, Uranium deposits of the Bulloch group of claims, Kane County, Utah: U.S. Geological Survey Circular 239, plate 1, scale 1:960.

225. Scott, W.E., and Shroba, R.R., 1985, Surficial geologic map of an area along the Wasatch fault zone in the Salt Lake Valley, Utah: U.S. Geological Survey Open-File Report 85-448. Two sheets, scale 1:24,000. (NC, Da, M, Db, U; Utah survey.)

226. Stokes, W.L., 1952, Uranium-vanadium deposits of the Thompsons area, Grand County, Utah: Utah Geological and Mineralogical Survey Bulletin 46, plate 1, scale 1:82,000, plate 2, scale 1:12,000.

227. Hackman, R.J., 1955, Photogeologic map of the Aneth-1 quadrangle, San Juan County, Utah, and Montezuma County, Colorado: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-90, scale 1:24,000.

228. Luedke, R.G., 1953, Stratigraphy and structure of the Miners Mountain area, Wayne County, Utah: U.S. Geological Survey Open-File Report 53-161, plate 1, scale 1:31,680. (NC.)

229. Bennett, H.S., 1955, Photogeologic map of the Navajo Mountains-5 quadrangle, Kane and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-44, scale 1:24,000.

230. McGregor, E.E., 1985, Engineering geology of surficial materials in the Huntington 30' x 60' quadrangle, Emery, Carbon, Grand, and Uintah Counties, Utah: U.S. Geological Survey Open-File Report 85-355, plate 1, scale 1:100,000. (NC, Da, M, Db, U; Utah survey.)

231. McGregor, E.E., 1985, Engineering geology of surficial materials in the Price 30' x 60' quadrangle, Carbon, Duchesne, Wasatch, and Utah Counties, Utah: U.S. Geological Survey Open-File Report 85-356, plate 1, scale 1:100,000. (NC, Da, M, Db, U; Utah survey.)

232. Hardy, C.T., and Zeller, H.D., 1953, Geology of the west-central part of the Gunnison Plateau, Utah: Geological Society of America Bulletin, v. 64, no. 11, p. 1261-1278, plate 1, scale 1:88,000.

233. Williams, N.C., 1953, Late pre-Cambrian and early Paleozoic geology of Western Uinta Mountains, Utah: American Association of Petroleum Geologists Bulletin, v. 37, no. 12, fig. 3, scale 1:250,000.

234. Granger, A.E., 1953, Stratigraphy of the Wasatch Range near Salt Lake City, Utah: U.S. Geological Survey Circular 296, plate 2, scale 1:62,500.

235. Wilmarth, V.R., 1953, Yellow Canary uranium deposits, Daggett County, Utah: U.S. Geological Survey Circular 312, fig. 2, scale 1:2,400.

236. Intermountain Association of Petroleum Geologists, 1953, Guide to the geology of northern Utah and southeastern Idaho: Intermountain Association of Petroleum Geologists Guidebook, 4th Annual field conference, plate 1, scale 1:195,000.

237. Bennett, H.S., 1955, Photogeologic map of the Navajo Mountains-12 quadrangle, Kane and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-45, scale 1:24,000.

238. Hackman, R.J., 1956, Photogeologic map of the Navajo Mountain-13 quadrangle, Kane and San Juan Counties, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-184, scale 1:24,000.

239. Detterman, J.S., 1955, Photogeologic map of the Mt. Pennell-11 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-47, scale 1:24,000.

240. Hackman, R.J., 1955, Photogeologic map of the Mt. Pennell-14 quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-50, scale 1:24,000.

241. Hackman, R.J., 1955, Photogeologic map of the Navajo Mountains-3 quadrangle, Kane and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-42, scale 1:24,000.

242. Finch, W.I., 1954, Geology of the Shinarump No. 1 uranium mine, Seven Mile Canyon area, Grand County, Utah: U.S. Geological Survey Open-File Report 54-82, fig. 2, scale 1:2,400. (U.)

243. Nethercott, M.A., 1985, Geologic map and coal resources of the Deadman Canyon quadrangle, Carbon County, Utah: Utah Geological and Mineral Survey Map 76, Map, scale 1:24,000.

244. Hunt, C.B., Varnes, H.D., and Thomas, H.E., 1953, Lake Bonneville--Geology of northern Utah Valley, Utah: U.S. Geological Survey Professional Paper 257-A, plate 1, scale 1:62,500.

245. Hansen, W.R., and Bonilla, M.G., 1954, Laramide faulting and orogeny on the north flank of the Uinta Mountains in eastern Daggett County, Utah: Colorado Scientific Society Proceedings, v. 17, no. 1, plate 1, scale 1:152,000.

246. Untermann, G.E., and Untermann, B.R., 1954, Geology of Dinosaur National Monument and vicinity, Utah-Colorado: Utah Geological and Mineralogical Survey Bulletin 42, plate 2, scale 1:88,700, fig. 2, scale 1:37,000.

247. Hawley, C.C., and others, 1965, Geology and uranium deposits of the Temple Mountain district, Emery County, Utah: U.S. Geological Survey Bulletin 1192, plate 1, scale 1:24,000.

248. Keys, W.S., 1954, The Delta mine, San Rafael Swell, Emery County, Utah: U.S. Atomic Energy Commission RME-59, fig. 3, scale 1:23,750.

249. Zareski, G.K., 1954, Reconnaissance of uranium occurrences at Wray Mesa, San Juan County, Utah, and Montrose County, Colorado: U.S. Atomic Energy Commission RME-69 (Pt. 1), fig. 2, scale 1:47,670.

250. Mackin, J.H., 1954, Geology and iron ore deposits of the Granite Mountain area, Iron County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-14, scale 1:12,000.

251. Hamblin, W.K., 1954, Geology and groundwater of northern Davis County: Brigham Young University Research Studies, Geologic Series, v. 1, no. 2, plate 1, scale 1:140,000.

252. Finch, W.I., 1954, Geology of the Shinarump No. 1 Uranium mine, Seven Mile Canyon area, Grand County, Utah: U.S. Geological Survey Circular 336, plate 1, scale 1:95,000.

253. Pantea, M.P., and Scott, R.W., Jr., 1986, Preliminary geologic map of the Flat Rock Mesa quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1866, scale 1:24,000.

254. Shoemaker, E.M., 1954, Structural features of southeastern Utah and adjacent parts of Colorado, New Mexico, and Arizona: Utah Geological Society Guidebook, no. 9, plate 2, scale 1:25,000.

255. Cashion, W.B., 1986, Geologic map of the Bonanza quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1865, scale 1:24,000.

256. Hansen, W.R., 1955, Geology of the Flaming Gorge quadrangle, Utah-Wyoming: U.S. Geological Survey Geologic Quadrangle Map GQ-75, scale 1:24,000.

257. Slentz, L.W., 1955, Salt Lake group in lower Jordan Valley: Utah Geological Society Guidebook, no. 10, fig. 5, scale 1:15,000.

258. Olsen, B.L., 1955, Geology of Baldy Area, west slope of Mount Timpanogos, Utah County, Utah: Brigham Young University Research Studies, Geologic Series, v. 2, no. 2, plate 1, scale 1:24,000.

259. Larson, M.J., Bromfield, C.S., Dubiel, R.F., Patterson, C.G., and Peterson, Fred, 1985, Geologic map of the Little Rockies Wilderness Study Area and the Mt. Hilliers and Mt. Pennell Study Areas and vicinity, Garfield County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1776-B, scale 1:50,000.

260. Adamson, R.D., Hardy, C.T., and Williams, J.S., 1955, Tertiary rocks of Cache Valley, Utah and Idaho: Utah Geological Society Guidebook, no. 10, fig. 2, scale 1:150,000.

261. Hansen, W.R., 1955, Pre-Cambrian geology of the area between Clay Basin and Browns Park in Utah and Colorado: Wyoming Geological Association Guidebook, 10th annual field conference, Green River Basin, plate 1, scale 1:63,360.

262. Knowles, S.P., 1985, Geology of the Scofield 7 1/2-minute quadrangle in Carbon, Emery, and Sanpete Counties, Utah: Brigham Young University Geology Studies, v. 32, pt. 1, p. 85-100, fig. 5, scale 1:78,000.

263. Detterman, J.S., 1955, Photogeologic map of the Navajo Mountains-6 quadrangle, Kane and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-41, scale 1:24,000.

264. Farrow, C.E., Jr., Trichman, R.A., Jr., Dickinson, R.C., and Hilleary, J.K., 1955, Drilling at the Sun Flower and Snow Flake claims, Lucky Strike and Peterino claims, and Yellow Circle claim group, San Juan County, Utah: U.S. Atomic Energy Commission, fig. 2, scale 1:35,000.

265. Young, J.C., 1955, Geology of the southern Lakeside Mountains, Utah: Utah Geological and Mineralogical Survey Bulletin 56, plate 1, scale 1:73,000.

266. Rhodes, J.A., 1955, The stratigraphy and structural geology of the Buckley Mountain area, south-central Wasatch Mountains, Utah: Brigham Young University Research Studies, Geologic Series, v. 2, no. 4, plate 1, scale 1:21,120.

267. Perkins, R.F., 1955, Structure and stratigraphy of the Lower American Fork Canyon-Mahogany Mountain Area, Utah County, Utah: Brigham Young University Research Studies, Geologic Series, v. 2, no. 1, scale 1:24,000.

268. Tolbert, G.E., 1952, Photogeologic maps of Carlisle 1, 8, 9, and 16 quadrangles, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-155, scale 1:24,000. (Db, U.)

269. Schaeffer, F.E., and Anderson, W.L., 1960, Geology of the Silver Island Mountains, Box Elder and Tooele Counties, Utah, and Elko County, Nevada: Utah Geological Society Guidebook to the Geology of Utah, no. 15, plate 1, scale 1:43,000, plate 2, scale 1:48,000.

270. McQueen, Kathleen, 1958, Photogeologic map of the Paria SE quadrangle, Kane County, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-265, scale 1:24,000.

271. Machette, M.N., 1985, Late Cenozoic geology of the Beaver Basin, southwestern Utah: Brigham Young University Geology Studies, v. 32, pt. 1, p. 19-37, fig. 2, scale 1:200,000.

272. George, S.E., 1985, Structural geology of the Pavant Mountain front in the Fillmore and Kanosh quadrangles, Millard County, Utah: Brigham Young University Geology Studies, v. 32, pt. 1, p. 39-61, plate 1, Fillmore quad, scale 1:24,000, plate 2, Kanosh quad, scale 1:24,000.

273. Proctor, P.D., and others, 1956, Preliminary geologic map of the Allens Ranch quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-45, scale 1:12,000.

274. Zeller, H.D., 1978, Geologic map and coal resources of the Collet Top quadrangle, Kane County, Utah: U.S. Geological Survey Coal Investigations Map C-80, scale 1:24,000. Supersedes OF 77-269.

275. Ray, R.G., Kent, B.H., and Dane, C.H., 1956, Stratigraphy and photogeology of the southwestern part of Uinta Basin, Duchesne and Uintah Counties: U.S. Geological Survey Oil and Gas Investigations Map OM-171, scale 1:63,360.

276. Hansen, W.R., and Bonilla, M.G., 1956, Geology of the Manila quadrangle, Utah-Wyoming: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-156, scale 1:24,000.

277. Callaghan, Eugene, 1950, Geologic map of Marysvale and vicinity: U.S. Geological Survey Open-File Report 50-17, scale 1:31,680. (NC.)

278. Stokes, W.L., and Cohenour, R.E., 1956, Geologic atlas of Utah, Emery County: Utah Geological and Mineralogical Survey Bulletin 52, plates 1-38, scale 1:125,000.

279. Cook, E.F., 1957, Geology of the Pine Valley Mountains, Utah: Utah Geological and Mineralogical Survey Bulletin 58, figs. 3-10, scale 1:125,000.

280. Disbrow, A.E., 1957, Preliminary geologic map of the Fivemile Pass quadrangle, Tooele and Utah Counties, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-131, scale 1:24,000.

281. Rawson, R.R., 1957, Geology of the southern part of the Spanish Fork Peak quadrangle, Utah: Brigham Young University Research Studies, Geologic Series, v. 4, no. 2, map, scale 1:24,000.

282. Pitcher, G.G., 1957, The geology of the Jordan Narrows quadrangle, Utah: Brigham Young University Research Studies, Geologic Series, v. 4, no. 4, plate 1, scale 1:24,000.

283. Henderson, G.V., 1968, Pyrophyllite-bearing clay in Clinton deposits, Utah County, Utah: Utah Geological and Mineralogical Survey Special Studies 23, plate 1, scale 1:3,600.

284. Kerr, P.F., Brophy, G.P., Dahl, H.M, Green, Jack, and Woolard, L.E., 1957, Marysvale, Utah, uranium area--Geology, volcanic relations, and hydrothermal alteration: Geological Society of America Special Paper 64, plate 12, scale 1:12,000. Also large scale alteration maps.

285. Cunningham, C.G., and Steven, T.A., 1979, Uranium in the central mining area, Marysvale District, west- central Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1177, scale 1:24,000. Supersedes OF 78-1093.

286. Hardy, C.T., 1957, The rocks and scenery of Camp Hunt, Rich County, Utah: Utah Geological and Mineralogical Survey Bulletin 60, fig. 7, scale 1:65,000.

287. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 1 SW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-103, scale 1:24,000.

288. Bradley, W.H., 1961, Geologic map of a part of southwest Wyoming and adjacent States: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-332, scale 1:250,000.

289. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Loa 1 NE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-100, scale 1:24,000.

290. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Loa 1 SE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-101, scale 1:24,000.

291. Carter, W.D., and Gualtieri, J.L., 1957, Preliminary geologic map of the Mount Peale 1 SE quadrangle, Montrose County, Colorado, and San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-123, scale 1:24,000. Supersedes Map I-174.

292. Kitzmiller, J.M., II, 1982, Preliminary geologic map of the Joes Valley Reservoir quadrangle, Emery and Sanpete Counties, Utah: Utah Geological and Mineral Survey Map 67, scale 1:24,000.

293. Carter, W.D., and Gualtieri, J.L., 1957, Preliminary geologic map of the Mount Peale 1 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-124, scale 1:24,000. Supersedes Map I-183.

294. Powell, D.K., 1959, The geology of southern House Range, Millard County, Utah: Brigham Young University Research Studies, Geologic Series, v. 6, no. 1, map, scale 1:39,500.

295. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 2 NE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-104, scale 1:24,000.

296. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 2 NW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-105, scale 1:24,000.

297. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 2 SE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-107, scale 1:24,000.

298. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 2 SW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-106, scale 1:24,000.

299. Sientz, L.W., and Eardley, A.J., 1956, Geology of the Rozel Hills: Utah Geological Society Guidebook, no. 11, fig. 10, scale 1:49,000.

300. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 3 NW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-109, scale 1:24,000.

301. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 3 SW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-110, scale 1:24,000.

302. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 3 SE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-111, scale 1:24,000.

303. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 4 NE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-112, scale 1:24,000.

304. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 4 NW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-113, scale 1:24,000.

305. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 4 SE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-115, scale 1:24,000.

306. Hackman, R.J., 1957, Photogeologic map of the Navajo Mountain-14 quadrangle, San Juan County, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-238, scale 1:24,000.

307. Eicher, L.J., Hedlund, D.C., and Miller, G.A., 1957, Preliminary geologic map and sections of the western part of the gateway District, Mesa County, Colorado, and Grand County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-122, scale 1:24,000.

308. Trites, A.F., Jr., and Hadd, G.A., 1958, Geology of the Jomac mine, White Canyon area, San Juan County, Utah: U.S. Geological Survey Bulletin 1046-H, plate 4, scale 1:32,000.

309. Prescott, M.W., 1958, Geology of the northwest quarter of the Soldier Summit quadrangle, Utah: Brigham Young University Research Studies, Geologic Series, v. 5, no. 2, map, scale 1:31,250.

310. Harris, DeVerle, 1958, The geology of Dutch Peak area, Shiprock Range, Tooele County, Utah: Brigham Young University Research Studies, Geologic Series, v. 5, no. 1, map, scale 1:20,000.

311. Gehman, H.M., Jr., 1958, Notch Peak intrusive, Millard County, Utah--Geology, petrogenesis, and economic deposits: Utah Geological and Mineralogical Survey Bulletin 62, plate 1, scale 1:20,500.

312. Anderson, J.J., 1986, Geologic map of Circleville Mountain quadrangle, Beaver, Piute, Iron, and Garfield Counties, Utah: Utah Geological and Mineral Survey Map 80, plate 1, scale 1:24,000.

313. Anderson, J.J., and Grant, T.C., 1986, Geologic map of the Fremont Pass quadrangle, Iron and Garfield Counties, Utah: Utah Geological and Mineral Survey Map 81, plate 1, scale 1:24,000.

314. Anderson, J.J., Rowley, P.D., and Blackman, J.T., 1986, Geologic map of the Circleville quadrangle, Beaver, Piute, and Garfield Counties, Utah: Utah Geological and Mineral Survey Map 82, plate 1, scale 1:24,000.

315. Sargent, K.A., and Philpott, B.C., 1985, Geologic map of the Johnson quadrangle, Kane County, Utah, and Coconino County, Arizona: U.S. Geological Survey Geologic Quadrangle Map GQ-1602, scale 1:62,500.

316. Bennett, H.S., 1955, Photogeologic map of the Navajo Mountain-2 quadrangle, Kane and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-66, scale 1:24,000.

317. Carter, W.D., and Gualtieri, J.L., 1958, Preliminary geologic map of the Mount Peale 1 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-140, scale 1:24,000.

318. Weir, G.W., and Kennedy, V.C., 1958, Preliminary geologic map of the Mount Peale 2 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-142, scale 1:24,000.

319. Weir, G.W., and Dodson, C.L., 1958, Preliminary geologic map of the Mount Peale 3 NE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-145, scale 1:24,000. Supersedes Map I-159.

320. Bennett, H.S., 1955, Photogeologic map of the Navajo Mountain-7 quadrangle, Kane and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-77, scale 1:24,000.

321. Weir, G.W., and Dodson, C.L., 1958, Preliminary geologic map of the Mount Peale 3 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-146, scale 1:24,000. Supersedes Map I-242.

322. Weir, G.W., and Dodson, C.L., 1958, Preliminary geologic map of the Mount Peale 3 SE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-147, scale 1:24,000.

323. Weir, G.W., and Dodson, C.L., 1958, Preliminary geologic map of the Mount Peale 4 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-148, scale 1:24,000.

324. McKeown, F.A., Hawley, C.C., and Orkild, P.P., 1958, Preliminary geologic map of the Orange Cliffs 3 NE quadrangle, Wayne and Garfield Counties, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-173, scale 1:24,000. Supersedes Map I-187.

325. Lesure, F.G., Huff, L.C., and Stugard, Fredrick, Jr., 1958, Preliminary geologic map of the Verdure 1 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-164, scale 1:24,000. Supersedes part of OF 52-63.

326. Witkind, I.J., 1958, Preliminary geologic map of the Verdure 2 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-162, scale 1:24,000. Supersedes part of OF 52-63.

327. Huff, L.C., and Lesure, F.G., 1958, Preliminary geologic map of the Verdure 2 SE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-163, scale 1:24,000. Supersedes part of OF 52-63.

328. Huff, L.C., and Lesure, F.G., 1958, Preliminary geologic map of the Verdure 3 SE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-167, scale 1:24,000. Supersedes part of OF 52-65.

329. Huff, L.C., and Lesure, F.G., 1958, Preliminary geologic map of the Verdure 4 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-166, scale 1:24,000. Supersedes part of OF 52-65.

330. Lesure, F.G., and Stugard, Fredrick, Jr., 1958, Preliminary geologic map of the Verdure 4 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-168, scale 1:24,000. Supersedes part of OF 52-65.

331. Bissell, H.J., 1963, Lake Bonneville: Geology of southern Utah Valley, Utah: U.S. Geological Survey Professional Paper 257-B, plate 5, scale 1:48,000.

332. Williams, J.S., 1962, Lake Bonneville: Geology of southern Cache Valley, Utah: U.S. Geological Survey Professional Paper 257-C, plate 6, scale 1:55,000.

333. Hackman, R.J., 1957, Photogeologic map of the Navajo Mountain-10 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-233, scale 1:24,000.

334. Treet, R.L., 1958, Crater Hill lava flow, Zion National Park, Utah: Geological Society of America Bulletin, v. 69, no. 8, p. 1065-1070, fig. 1, scale 1:72,000.

335. Hunt, C.B., 1958, Structural and igneous geology of the La Sal Mountains, Utah: U.S. Geological Survey Professional Paper 294-I, plate 39, scale 1:63,360, plate 40, scale 1:20,000.

336. Lesure, F.G., Huff, L.C., and Stugard, Fredrick, Jr., 1958, Preliminary geologic map of the Verdure 3 NE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-165, scale 1:24,000. Supersedes part of OF 52-65.

337. Lewis, R.Q., Sr., and Campbell, R.H., 1958, Preliminary geologic map of the Elk Ridge 1 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-201, scale 1:24,000. Supersedes Map I-7.

338. Lewis, R.Q., Sr., and Campbell, R.H., 1958, Preliminary geologic map of the Elk Ridge 3 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-195, scale 1:24,000.

339. Lewis, R.Q., Sr., and Campbell, R.H., 1958, Preliminary geologic map of the Elk Ridge 2 SE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-193, scale 1:24,000.

340. Lewis, R.Q., Sr., and Campbell, R.H., 1958, Preliminary geologic map of the Elk Ridge 2 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-192, scale 1:24,000.

341. Sorensen, M.L., 1987, Geologic map of the Stansbury Roadless Areas, Tooele County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1353-A, scale 1:62,500.

342. Rigby, J.K., ed., 1958, Geology of the Stansbury Mountains, eastern Tooele County, Utah: Utah Geological Society Guidebook no. 13, plates 1 and 2, scale 1:63,360.

343. Henderson, G.V., 1958, Geology of the northeast quarter of the Soldier Summit quadrangle, Utah: Brigham Young University Research Studies, Geologic Series, v. 5, no. 5, plate 8, scale 1:31,500.

344. Bullock, R.L., 1958, The geology of Lehi quadrangle, Utah: Brigham Young University Research Studies, Geologic Series, v. 5, no. 3, plate 8, scale 1:24,000.

345. Thomas, G.H., 1958, Geology of Indian Springs quadrangle, Tooele and Juab Counties, Utah: Brigham Young University Research Studies, Geologic Series, v. 5, no. 4, plate 1, scale 1:27,500.

346. Lewis, R.Q., Sr., and Campbell, R.H., 1958, Preliminary geologic map of the Elk Ridge 2 NE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-190, scale 1:24,000.

347. Miller, G.A., and Cadigan, R.A., 1958, Preliminary geologic map of the Circle Cliffs 2 NE quadrangle, Garfield County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-157, scale 1:24,000. Supersedes Map I-19.

348. Mullens, T.E., 1958, Preliminary geologic map of the Clay Hills 2 NE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-184, scale 1:24,000.

349. Flint, R.F., and Denny, C.S., 1958, Quaternary geology of Boulder Mountain, Aquarius Plateau, Utah: U.S. Geological Survey Bulletin 1061-D, plate 6, scale 1:63,360.

350. Williams, J.S., 1958, Geologic atlas of Utah--Cache County: Utah Geological and Mineralogical Survey Bulletin 64, scale 1:125,000.

351. Bjorklund, L.J., and McGreevy, L.J., 1971, Ground-water resources of Cache Valley, Utah and Idaho: Utah Department of Natural Resources Technical Publication 36, plate 1, scale 1:200,000.

352. Lewis, R.Q., Sr., and Campbell, R.H., 1959, Preliminary geologic map of the Elk Ridge 3 NE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-194, scale 1:24,000.

353. Mullens, T.E., 1959, Preliminary geologic map of the Clay Hills 2 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-185, scale 1:24,000.

354. Mullens, T.E., 1959, Preliminary geologic map of the Clay Hills 2 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-186, scale 1:24,000.

355. Hintze, L.F., 1959, Geology of the House Range, Millard County, Utah--Preliminary map: Brigham Young University Geology Department, map, scale 1:48,000.

356. Davidson, E.S., and Cadigan, R.A., 1959, Preliminary geologic map of the Circle Cliffs 1 NE quadrangle, Garfield County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-153, scale 1:24,000. Supersedes Map I-17.

357. Lewis, R.Q., Sr., and Campbell, R.H., 1959, Preliminary geologic map of the Elk Ridge 4 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-198, scale 1:24,000. Supersedes Map I-35.

358. Lewis, R.Q., Sr., and Campbell, R.H., 1959, Preliminary geologic map of the Elk Ridge 4 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-199, scale 1:24,000. Supersedes Map I-55.

359. Lewis, R.Q., Sr., and Campbell, R.H., 1959, Preliminary geologic map of the Elk Ridge 1 SW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-200, scale 1:24,000. Supersedes Map I-32.

360. Teichert, J.A., 1959, Geology of the southern Stansbury Range, Tooele County, Utah: Utah Geological and Mineralogical Survey Bulletin 65, plate 2, scale 1:96,000.

361. Morris, H.T., 1964, Geology of the Eureka quadrangle, Utah and Juab Counties, Utah: U.S. Geological Survey Bulletin 1142-K, plate 1, scale 1:24,000.

362. Taylor, A.O., and Powers, J.F., 1959, Reconnaissance geologic map of the Wah Wah Range, Beaver County, Utah: U.S. Geological Survey Open-File Report 59-113, scale 1:62,500. (NC.)

363. Callaghan, Eugene, and Parker, R.L., 1962, Geology of the Delano Peak quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-153, scale 1:62,500.

364. Dearden, M.O., 1954, Geology of the central Boulter Mountains area, Utah: Brigham Young University Research Studies, Geologic Series, v. 1, no. 5, plate 1, scale 1:2,820.

365. McFarland, C.R., 1955, Geology of the West Canyon area, northwestern Utah County, Utah: Brigham Young University Research Studies, Geologic Series, v. 2, no. 3, plate 1, scale 1:31,500.

366. Croft, M.G., 1956, Geology of the northern Onaqui Mountains, Tooele County, Utah: Brigham Young University Research Studies, Geologic Series, v. 3, no. 1, map, scale 1:32,000.

367. Demars, L.C., 1956, Geology of the northern part of Dry Mountain, southern Wasatch Mountains, Utah: Brigham Young University Research Studies, Geologic Series, v. 3, no. 2, plate 1, scale 1:21,600.

368. Peterson, D.J., 1956, Stratigraphy and structure of the West Loafer Mountain-Upper Payson Canyon area, Utah County, Utah: Brigham Young University Research Studies, Geologic Series, v. 3, no. 4, plate 1, scale 1:22,800.

369. Smith, C.V., 1956, Geology of the North Canyon area, southern Wasatch Mountains, Utah: Brigham Young University Research Studies, Geologic Series, v. 3, no. 7, plate 3, scale 1:20,000.

370. Cashion, W.B., and Brown, J.H., Jr., 1956, Geology of the Bonanza-Dragon oil-shale area, Uintah County, Utah, and Rio Blanco County, Colorado: U.S. Geological Survey Oil and Gas Investigations Map OM-153, scale 1:62,500.

371. Thurston, W.R., Staatz, M.H., Cox, D.C., and others, 1954, Fluorspar deposits of Utah: U.S. Geological Survey Bulletin 1005, plate 1, scale 1:12,000, fig. 17, scale 1:960, fig. 18, scale 1:4,020.

372. Cohenour, R.E., 1959, Sheeprock Mountains, Tooele and Juab Counties: Utah Geological and Mineralogical Survey Bulletin 63, plate 1, scale 1:135,000.

373. Poehlmann, E.J., and King, E.N., 1953, Report on wagon drilling for uranium in the Silver Reef (Harrisburg) District, Washington County, Utah: U.S. Atomic Energy Commission RME-2004, pt. 1, fig. 1, scale 1:180,000, fig. 2A, scale 1:33,000.

374. Oviatt, C.G., 1985, Late Quaternary geomorphic changes along the San Juan River and its tributaries near Bluff, Utah, in Contributions to Quaternary geology of the Colorado Plateau: Utah Geological and Mineral Survey Special Studies 64, p. 32-47, fig. 2, scale 1:11,500.

375. Shroder, J.F., and Sewell, R.E., 1984, Mass movement in the La Sal Mountains, Utah, in Contributions to Quaternary geology of the Colorado Plateau: Utah Geological and Mineral Survey Special Studies 64, p. 48-85, fig. 4, scale 1:140,000. Also other maps.

376. Keys, W.S., and White, R.L., 1956, Deep drilling in the Temple Mountain collapse, San Rafael Swell, Emery County, Utah: U.S. Geological Survey Professional Paper 300, plate 4, scale 1:4,800.

377. Ritzma, H.R., 1959, Geologic atlas of Utah, Daggett County: Utah Geological and Mineralogical Survey Bulletin 66, map, scale 1:125,000.

378. Johnson, K.D., 1959, Structure and stratigraphy of the Mount Nebo-Salt Creek area, southern Wasatch Mountains, Utah: Brigham Young University Research Studies, Geologic Series, v. 6, no. 6, plate 8, scale 1:65,000.

379. Meecham, D.F., and Bitter, R.K., compilers, 1959, Geology of the Wasatch and Uinta Mountains transition area, northeastern Utah and southwestern Wyoming, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, 10th annual field conference, map, scale 1:190,000.

380. Bissell, H.J., 1959, North Strawberry Valley sedimentation and tectonics, in Guidebook to the geology of the Wasatch and Uinta Mountains transition area: Intermountain Association of Petroleum Geologists Guidebook, 10th annual field conference, p. 159-165, map, scale 1:90,000.

381. Staatz, M.H., and Osterwald, F.W., 1959, Geology of the Thomas Range fluorspar district, Juab County, Utah: U.S. Geological Survey Bulletin 1069, plate 1, scale 1:12,000, plate 3, scale 1:6,000, plate 4, scale 1:6,000, plate 9, scale 1:1,200, plate 11, scale 1:1,200, plate 12, scale 1:960.

382. Sando, W.J., Dutro, J.T., Jr., and Gere, W.C., 1959, Brazer dolomite (Mississippian), Randolph quadrangle, northeast Utah: American Association of Petroleum Geologists Bulletin, v. 43, no. 12, fig. 2, scale 1:47,000.

383. Davis, B.L., 1959, Petrology and petrography of the igneous rocks of the Stansbury Mountains, Tooele County, Utah: Brigham Young University Research Studies, Geologic Series, v. 6, no. 2, fig. 6, scale 1:28,000, fig. 8, scale 1:70,000.

384. Gould, W.J., 1959, Geology of the northern Needle Range, Millard County, Utah: Brigham Young University Research Studies, Geologic Series, v. 6, no. 5, plate 1, scale 1:45,000.

385. Luft, S.J., 1985, Generalized geologic map showing distribution and basal configuration of the Browns Park Formation and Bishop Conglomerate in northwestern Colorado, northeastern Utah, and southern Wyoming: U.S. Geological Survey Miscellaneous Field Studies Map MF-1821, scale 1:250,000.

386. Foster, J.M., 1959, Geology of the Bismark Peak area, North Tintic District, Utah County, Utah: Brigham Young University Research Studies, Geologic Series, v. 6, no. 4, plate 4, scale 1:14,400.

387. Rigby, J.K., 1959, The rocks and scenery of Camp Maple Dell, Utah County, Utah: Utah Geological and Mineralogical Survey Bulletin 67, fig. 4, scale 1:54,000.

388. Barosh, P.J., 1960, Beaver Lake Mountains, Beaver County, Utah--Their geology and ore deposits: Utah Geological and Mineralogical Survey Bulletin 68, plate 4, scale 1:63,360.

389. Burge, D.L., 1959, Intrusive and metamorphic rocks of the Silver Lake Flat area, American Fork Canyon, Utah: Brigham Young University Research Studies, Geologic Series, v. 6, no. 7, plate 9, scale 1:12,600.

390. Foutz, D.R., 1960, Geology of the Wash Canyon area, southern Wasatch Mountains, Utah: Brigham Young University Research Studies, Geologic Series, v. 7, no. 2, map, scale 1:26,500.

391. Kennedy, R.R., 1950, Geology between Pine (Bullion) Creek and Tenmile Creek, eastern Tushar Range, Piute County: Brigham Young University Research Studies, Geologic Series, v. 7, no. 4, map, scale 1:35,000.

392. Hose, R.K., 1977, Structural geology of the Confusion Range, west-central Utah: U.S. Geological Survey Professional Paper 971, plate 1, scale 1:125,000.

393. Carter, W.D., Gualtieri, J.L., and Shoemaker, E.M., 1958, Preliminary geologic map of the Mount Peale 1 NE quadrangle, San Juan County, Utah, and Montrose County, Colorado: U.S. Geological Survey Mineral Investigations Field Studies Map MF-139, scale 1:24,000. Supersedes Map I-165.

394. Cashion, W.B., 1977, Geologic map of the Weaver Ridge quadrangle, Uintah County, Utah, and Rio Blanco County, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-824, scale 1:24,000.

395. Weir, G.W., and Puffett, W.P., 1960, Preliminary geologic map and sections of the Mount Peale 2 NE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-141, scale 1:24,000.

396. Kleinhampl, F.J., and Koteff, Carl, 1960, Botanical prospecting for uranium in the Circle Cliffs area, Garfield County, Utah: U.S. Geological Survey Bulletin 1085-C, plate 7, scale 1:125,000.

397. Blanchard, L.F., 1980, Geologic map and coal sections of Johns Peak quadrangle, Sevier County, Utah: U.S. Geological Survey Open-File Report 80-491, scale 1:24,000. (NC, Da, M, Db, U.)

398. Weir, G.W., Dodson, C.L., and Puffett, W.P., 1960, Preliminary geologic map and sections of the Mount Peale 2 SE quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-143, scale 1:24,000. Supersedes Map I-173.

399. Mullens, T.E., 1960, Geology of the Clay Hills area, San Juan County, Utah: U.S. Geological Survey Bulletin 1087-H, plate 27, scale 1:62,500.

400. Hackman, R.J., 1956, Photogeologic map of the Navajo Mountain-15 quadrangle, San Juan County, Utah, and Navajo County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-185, scale 1:24,000.

401. Staatz, M.H., and Carr, W.J., 1964, Geology and mineral deposits of the Thomas and Dugway Ranges, Juab and Tooele Counties, Utah: U.S. Geological Survey Professional Paper 415, plate 1, scale 1:31,680. Also detailed maps.

402. Baker, A.A., 1964, Geology of the Aspen Grove quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-239, scale 1:24,000.

403. Mullens, T.E., and Izett, G.A., 1963, Geology of the Paradise quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-185, scale 1:24,000.

404. Mullens, T.E., and Izett, G.A., 1964, Geology of the Paradise quadrangle, Cache County, Utah: U.S. Geological Survey Bulletin 1181-S, plate 1, scale 1:24,000.

405. Baker, A.A., 1964, Geology of the Orem quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-241, scale 1:24,000.

406. Weir, G.W., Carter, W.D., Puffett, W.P., and Gualtieri, J.L., 1960, Preliminary geologic map and section of the Mount Peale NE quadrangle, San Juan County, Utah, and Montrose and San Miguel Counties, Colorado: U.S. Geological Survey Mineral Investigations Field Studies Map MF-150, scale 1:24,000.

407. Weir, G.W., and Puffett, W.P., 1960, Preliminary geologic map of the Mount Peale 4 SE quadrangle, San Juan County, Utah, and San Miguel County, Colorado: U.S. Geological Survey Mineral Investigations Field Studies Map MF-149, scale 1:24,000. Supersedes Map I-176.

408. Dubiel, R.F., Bromfield, C.S., Larson, M.J., Patterson, C.G., and Peterson, Fred, 1985, Geologic map of the Dirty Devel, French Spring-Happy Canyon, and Horseshoe Canyon Wilderness Study Areas, Wayne and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1754-B, scale 1:50,000.

409. Larson, M.J., Bromfield, C.S., Dubiel, R.F., Orkild, P.P., Patterson, C.G., and Peterson, Fred, 1985, Geologic maps of the Fiddler Butte Wilderness Study Area and the Fremont Gorge Study Area, Garfield and Wayne Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1755-B, scale 1:50,000, scale 1:50,000.

410. Patterson, C.G., Bromfield, C.S., Dubiel, R.F., Faulds, J.E., Larson, M.J., Milde, P.J., and Peterson, Fred, 1985, Geologic map of the Mount Ellen-Blue Hills Wilderness Study Area and Bull Mountain Study Area, Garfield and Wayne Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1756-B, scale 1:50,000.

411. Baker, A.A., 1946, Areal geologic map of the Green River Desert-Cataract Canyon region, Emery, Wayne, and Garfield Counties, Utah: U.S. Geological Survey Oil and Gas Investigations Map OM-55, scale 1:126,720.

412. Baker, A.A., and Crittenden, M.D., Jr., 1961, Geology of the Timpanogos Cave quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-132, scale 1:24,000.

413. Cook, E.F., 1960, Geologic atlas of Utah--Washington County: Utah Geological and Mineralogical Survey Bulletin 70, scale 1:125,000.

414. Hansen, W.R., 1961, Geologic map of the Dutch John Mountain and Goslin Mountain quadrangles, Utah-Wyoming: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-324, scale 1:24,000.

415. Weir, W.G., Puffett, W.P., and Dodson, C.L., 1960, Preliminary geologic map and section of the Mount Peale 4 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-151, scale 1:24,000. Supersedes Map I-158.

416. Hansen, W.R., 1961, Geologic map of the Willow Creek Butte quadrangle, Utah-Colorado: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-322, scale 1:24,000.

417. Cashion, W.B., 1961, Geology and fuel resources of the Orderville-Glendale area, Kane County, Utah: U.S. Geological Survey Coal Investigations Map C-49, scale 1:62,500.

418. Tooker, E.W., and Roberts, R.J., 1961, Preliminary geologic map and sections of the north end of the Oquirrh Range (Mills Junction, Garfield, and Magna 7 1/2-minute quadrangles), Tooele and Salt Lake Counties, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-240, scale 1:24,000.

419. Disbrow, A.E., 1961, Geology of the Boulter Peak quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-141, scale 1:24,000.

420. O'Sullivan, R.B., 1965, Geology of the Cedar Mesa-Boundary Butte area, San Juan County, Utah: U.S. Geological Survey Bulletin 1186, plate 1, scale 1:62,500.

421. Lewis, R.Q., Sr., and Campbell, R.H., 1958, Preliminary geologic map of the Elk Ridge 2 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-191, scale 1:24,000.

422. Olson, A.B., 1956, Photogeologic map of the Navajo Mountain-1 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-229, scale 1:24,000.

423. Crittenden, M.D., Jr., Straczek, J.A., and Roberts, R.J., 1961, Manganese deposits in the Drum Mountains, Juab and Millard Counties, Utah: U.S. Geological Survey Bulletin 1082-H, plate 20, scale 1:12,000, plate 21, scale 1:24,000.

424. Hose, R.K., 1963, Geologic map and sections of the Cowboy Pass SE quadrangle, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-391, scale 1:24,000.

425. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 3 NE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-108, scale 1:24,000.

426. Steed, R.H., 1954, Geology of the Circle Cliffs anticline, in Geology of portions of the high plateaus and adjacent canyon lands, central and south-central Utah: Intermountain Association of Petroleum Geologists Guidebook, 5th annual field conference, plate 12, scale 1:140,000.

427. United States Atomic Energy Commission, 1956, Photogeologic map of the Lisbon Valley anticline and surrounding area, San Juan County, Utah: U.S. Atomic Energy Commission Preliminary Map 3, scale 1:48,000.

428. Sears, J.D., 1956, Geology of Comb Ridge and vicinity north of San Juan River, San Juan County, Utah: U.S. Geological Survey Bulletin 1021-E, plate 17, scale 1:63,360.

429. Weir, G.W., Kennedy, V.C., Puffett, W.P., and Dodson, C.L., 1961, Preliminary geologic map and sections of Mount Peale 2 NW quadrangle, San Juan County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-152, scale 1:24,000. Supersedes Map I-172.

430. Miller, C.F., 1955, Photogeologic map of the Desert Lake-2 quadrangle, Emery and Carbon Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-100, scale 1:24,000.

431. Lewis, R.Q., Sr., and Campbell, R.H., 1965, Geology and uranium deposits of Elk Ridge and vicinity, San Juan County, Utah: U.S. Geological Survey Professional Paper 474-B, plate 2, scale 1:62,500.

432. Lovering, T.S., and others, 1960, Geologic and alteration maps of the East Tintic district, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-230, scale 1:9,600.

433. Morris, H.T., Lovering, T.S., and others, 1979, General geology and mines of the East Tintic Mining District, Utah and Juab Counties, Utah: U.S. Geological Survey Professional Paper 1024, plate 1, scale 1:9,600. Also mine maps.

434. Morris, H.T., and Lovering, T.S., 1961, Stratigraphy of the East Tintic Mountains, Utah: U.S. Geological Survey Professional Paper 361, plate 2, scale 1:96,000.

435. Willard, M.E., and Callaghan, Eugene, 1962, Geology of the Marysvale quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-154, scale 1:62,500.

436. Callaghan, Eugene, and Parker, R.L., 1961, Geology of the Monroe quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-155, scale 1:62,500.

437. Jordan, T.E., 1985, Geologic map of the Bulls Pass quadrangle, Box Elder County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1491, scale 1:24,000.

438. Callaghan, Eugene, and Parker, R.L., 1962, Geology of the Sevier quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-156, scale 1:62,500.

439. Haynes, D.D., Vogel, J.D., and Wyant, D.G., 1972, Geology, structure, and uranium deposits of the Cortez quadrangle, Colorado and Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-629, scale 1:250,000.

440. Averitt, Paul, 1962, Geology and coal resources of the Cedar Mountain quadrangle, Iron County, Utah: U.S. Geological Survey Professional Paper 389, plate 1, scale 1:24,000.

441. Richmond, G.M., 1962, Quaternary stratigraphy of the La Sal Mountains, Utah: U.S. Geological Survey Professional Paper 324, plate 1, scale 1:48,000. Supersedes OF 55-150.

442. Bromfield, C.S., and Crittenden, M.D., Jr., 1971, Geologic map of the Park City East quadrangle, Summit and Wasatch Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-852, scale 1:24,000.

443. Hose, R.K., 1963, Geologic map and section of the Cowboy Pass NE quadrangle, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-377, scale 1:24,000.

444. Hose, R.K., and Repenning, C.A., 1963, Geologic map and sections of the Cowboy Pass NW quadrangle, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-378, scale 1:24,000.

445. Hanks, K.L., 1962, Geology of the central House Range area, Millard County, Utah: Brigham Young University Geology Studies, v. 9, pt. 2, map, scale 1:63,360.

446. Baer, J.L., 1962, Geology of the Star Range, Beaver County: Brigham Young University Geology Studies, v. 9, pt. 2, map, scale 1:63,360.

447. Staatz, M.H., 1963, Geology of the beryllium deposits in the Thomas Range, Juab County, Utah: U.S. Geological Survey Bulletin 1142-M, plate 1, scale 1:12,000.

448. Stringham, Bronson, 1963, Hydrothermal alteration in the southeast part of the Frisco quadrangle, Beaver County, Utah: Utah Geological and Mineralogical Survey Special Studies 4, plate 2, scale 1:7,500, plate 3, scale 1:7,500, plate 4, scale 1:7,500.

449. Olson, A.B., 1957, Photogeologic map of the Navajo Mountain-8 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-221, scale 1:24,000.

450. Hintze, L.F., and Best, M.G., 1985, Geologic map of the Mountain Home Pass and Miller Wash quadrangles, Millard and Beaver Counties, Utah, and Lincoln County, Nevada: U.S. Geological Survey Open-File Report 85-361, sheet 1, Mountain Home Pass quad, scale 1:24,000, sheet 2, Miller Wash quad, scale 1:24,000. (NC, Da, M, Db, U, SF, LA; Nevada and Utah surveys.)

451. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1963, Geology of the Capitol Reef area, Wayne and Garfield Counties, Utah: U.S. Geological Survey Professional Paper 363, plate 1, scale 1:62,500.

452. Hose, R.K., and Ziony, J.I., 1963, Geologic map and sections of the Gandy NE quadrangle, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-376, scale 1:24,000.

453. Duttweiler, K.A., 1985, Geology and geochemistry of the Broken Ridge Area, southern Wah Wah Mountains, Iron County, Utah: U.S. Geological Survey Open-File Report 85-452, plate 1, scale 1:24,000. (NC, Da, M, Db, U; Utah survey.)

454. Mabey, D.R., Crittenden, M.D., Jr., Morris, H.T., Roberts, R.J., and Tooker, E.W., 1964, Aeromagnetic and generalized geologic map of part of north-central Utah: U.S. Geological Survey Geophysical Investigations Map GP-422, scale 1:250,000.

455. Hose, R.K., and Repenning, C.A., 1964, Geologic map and sections of the Cowboy Pass SW quadrangle, Confusion Range, Millard County, Utah: U.S. Geological Survey Geologic Investigations Series Map I-390, scale 1:24,000.

456. Morris, H.T., 1964, Geology of the Tintic Junction quadrangle, Tooele, Juab, and Utah Counties, Utah: U.S. Geological Survey Bulletin 1142-L, plate 1, scale 1:24,000.

457. Hose, R.K., and Ziony, J.I., 1964, Geologic map and sections of the Gandy SE quadrangle, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-393, scale 1:24,000.

458. Erickson, M.P., and Dasch, E.J., 1963, Geology and hydrothermal alteration in northwestern Black Mountains and southern Shauntie Hills, Beaver and Iron Counties, Utah: Utah Geological and Mineralogical Survey Special Studies 6, plate 2, scale 1:29,000.

459. Finnell, T.L., Franks, P.C., and Hubbard, H.A., 1963, Geology, ore deposits, and exploratory drilling in the Deer Flat area, White Canyon district, San Juan County, Utah: U.S. Geological Survey Bulletin 1132, plate 1, scale 1:24,000.

460. Mullens, T.E., and Laraway, W.H., 1964, Geology of the Devils Slide quadrangle, Morgan and Summit Counties, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-290, scale 1:24,000.

461. Marshall, C.H., 1955, Photogeologic map of the Clay Hills-11 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-65, scale 1:24,000.

462. Black, B.A., 1965, Nebo overthrust, southern Wasatch Mountains, Utah: Brigham Young University Geology Studies, v. 12, scale 1:24,000.

463. Schneyer, J.D., 1984, Structural and stratigraphic complexities within an extension terrain--Examples from the Leppy Hills area, southern Silver Island Mountains, near Wendover, Utah, in Geology of northwest Utah, southern Idaho, and northeast Nevada: Utah Geological Association Publication 13, p. 93-116, fig. 4, scale 1:62,500.

464. Wilson, M.T., and Thomas, H.E., 1964, Hydrology and hydrogeology of Navajo Lake, Kane County, Utah: U.S. Geological Survey Professional Paper 417-C, plate 1, scale 1:62,500.

465. Crittenden, M.D., Jr., 1965, Geology of the Draper quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-377, scale 1:24,000.

466. Ray, R.G., 1952, Photogeologic map of Bluff 14 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-121, scale 1:24,000, (Db, U.)

467. Crittenden, M.D., Jr., 1965, Geology of the Mount Aire quadrangle, Salt Lake County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-379, scale 1:24,000.

468. Crittenden, M.D., 1965, Geology of Salt Lake County, Utah: Utah Geological and Mineralogical Survey Bulletin 69, scale 1:63,360.

469. Marsell, R.E., and Threet, R.L., 1960, Geologic map of Salt Lake County, Utah: Utah Geological and Mineralogical Survey Report Series 83, scale 1:63,360.

470. Crittenden, M.D., Jr., 1965, Geology of the Dromedary Peak quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-378, scale 1:24,000.

471. Richmond, G.M., 1964, Glaciation of Little Cottonwood and Bells Canyons, Wasatch Mountains, Utah: U.S. Geological Survey Professional Paper 454-D, plate 1, scale 1:24,000.

472. Marshall, C.H., 1955, Photogeologic map of the Clay Hills-7 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-62, scale 1:24,000.

473. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Loa 4 NE quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-102, scale 1:24,000.

474. Lindsey, D.A., and Osmonson, L.M., 1978, Mineral potential of altered rocks near Blawn Mountain, Wah Wah Range, Utah: U.S. Geological Survey Open-File Report 78-114, fig. 2, scale 1:24,000. (NC, Da, M, Db, U.)

475. Whelan, J.A., 1965, Hydrothermal alteration and mineralization, Staats Mine and Blawn Mountain areas, central Wah Wah Range, Beaver County, Utah: Utah Geological and Mineralogical Survey Special Studies 12, plate 2, scale 1:3,600, plate 3, scale 1:4,800.

476. Stephens, E.V., 1973, Geologic map and coal resources of the Wide Hollow Reservoir quadrangle, Garfield County, Utah: U.S. Geological Survey Coal Investigations Map C-55, scale 1:24,000.

477. Detterman, J.S., 1956, Photogeologic map of the Kaiparowits Peak-7 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-136, scale 1:24,000.

478. Hose, R.K., 1965, Geologic map and sections of the Conger Range NE quadrangle and adjacent area, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-436, scale 1:24,000.

479. Carter, W.D., and Gualtieri, J.L., 1965, Geology and uranium-vanadium deposits of the La Sal quadrangle, San Juan County, Utah, and Montrose County, Colorado: U.S. Geological Survey Professional Paper 508, plate 1, scale 1:62,500, plate 4, La Sal Creek area, scale 1:24,000. Also other maps.

480. Huff, L.C., and Lesure, F.G., 1965, Geology and uranium deposits of Montezuma Canyon area, San Juan County, Utah: U.S. Geological Survey Bulletin 1190, plate 1, scale 1:62,500.

481. Hinrichs, E.N., Krummel, W.J., Jr., Moore, H.J., III, and Connor, J.J., 1968, Geologic map of the northeast quarter of the Hatch Point quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-526, scale 1:24,000.

482. Tolbert, G.E., 1956, Photogeologic map of the Carlisle-1 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-180, scale 1:24,000.

483. Hinrichs, E.N., Krummel, W.J., Jr., Conner, J.J., and Moore, H.J., III, 1967, Geologic map of the northwest quarter of the Hatch Point quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-513, scale 1:24,000.

484. Detterman, J.S., 1955, Photogeologic map of the Carlisle-2 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-67, scale 1:24,000.

485. Hintze, L.F., 1985, Geologic map of the Shivwits and West Mountain Peak quadrangles, Washington County, Utah: U.S. Geological Survey Open-File Report 85-119, plate 1, Shivwits quad, scale 1:24,000, plate 2, West Mtn Peak quad, scale 1:24,000. (NC, Da, M, Db, U; Utah survey.)

486. Hintze, L.F., 1985, Geologic map of the Castle Cliff and Jarvis Peak quadrangles, Washington County, Utah: U.S. Geological Survey Open-File Report 85-120, plate 1, Castle Cliff quad, scale 1:24,000, plate 2, Jarvis Peak quad, scale 1:24,000. (NC, Da, M, Db, U; Utah survey.)

487. Untermann, G.E., and Untermann, B.R., 1964, Geology of Uintah County: Utah Geological and Mineralogical Survey Bulletin 72, map scale 1:125,000.

488. Peterson, Fred, and Barnum, B.E., 1973, Geologic map and coal resources of the northeast quarter of the Cummings Mesa quadrangle, Kane County, Utah: U.S. Geological Survey Coal Investigations Map C-63, scale 1:24,000.

489. Reed, J.C., Jr., 1955, Photogeologic map of the Straight Cliffs-9 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-38, scale 1:24,000.

490. Woodward-Clyde Consultants, 1984, Geologic characterization report for the Paradox Basin Study Region, Utah Study Areas, volume 6, Salt Valley: Battelle Memorial Institute, for ONWI. Report ONWI-290, map, scale 1:62,500. Also other maps.

491. Bick, K.F., 1966, Geology of the Deep Creek Mountains, Tooele and Juab Counties, Utah: Utah Geological and Mineralogical Survey Bulletin 77, plate 1, scale 1:62,500.

492. Trexler, D.W., 1966, The stratigraphy and structure of the Coalville area, northeastern Utah: Colorado School of Mines Professional Contribution no. 2, plate 1, scale 1:45,000.

493. Marshall, C.H., 1955, Photogeologic map of the Clay Hills-10 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-78, scale 1:24,000.

494. Kayser, R.B., 1966, Bituminous sandstone deposits, Asphalt Ridge, Uintah County, Utah: Utah Geological and Mineralogical Survey Special Studies 19, plates 1A and 1B, scale 1:12,000.

495. Stringham, Bronson, 1967, Hydrothermal alteration near the Horn Silver mine, Beaver County, Utah: Utah Geological and Mineralogical Survey Special Studies 16, plate 2, scale 1:8,500.

496. Blank, H.R., and Mackin, J.H., 1967, Geologic interpretation of aeromagnetic survey of the Iron Springs district, Utah: U.S. Geological Survey Professional Paper 516-B, scale 1:48,000.

497. Cashion, W.B., 1967, Geology and fuel resources of the Green River Formation, southeastern Uinta Basin, Utah and Colorado: U.S. Geological Survey Professional Paper 548, plate 1, scale 1:125,000.

498. Crittenden, M.D., Jr., Wallace, C.A., and Sheridan, M.J., 1967, Mineral resources of the High Uintas Primitive Area, Utah: U.S. Geological Survey Bulletin 1230-I, plate 1, scale 1:125,000.

499. Cashion, W.B., 1967, Geologic map of the south flank of the Markagunt Plateau, northwest Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-494, scale 1:62,500.

500. Robison, R.A., 1966, Geology and coal resources of Tropic area, Garfield County, Utah: Utah Geological and Mineralogical Survey Special Studies 18, plate 1, scale 1:48,000.

501. Carpenter, C.H., Robinson, G.B., Jr., and Bjorklund, L.J., 1967, Ground-water conditions and geologic reconnaissance of the upper Sevier River basin, Utah: U.S. Geological Survey Water-Supply Paper 1836, plate 1, scale 1:250,000.

502. Orkild, P.P., 1956, Photogeologic map of the White Canyon-4 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-170, scale 1:24,000.

503. Feltis, R.D., 1967, Ground-water conditions in Cedar Valley, Utah County, Utah: Utah State Engineer Technical Publication 16, scale 1:125,000.

504. Orkild, P.P., 1956, Photogeologic map of the White Canyon-3 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-195, scale 1:24,000.

505. Reed, J.C., Jr., 1955, Photogeologic map of the White Canyon-2 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-36, scale 1:24,000.

506. Baker, A.A., and others, 1966, Geologic map of the Brighton quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-534, scale 1:24,000.

507. Averitt, Paul, 1967, Geologic map of the Kanarraville quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-694, scale 1:24,000.

508. Orkild, P.P., 1956, Photogeologic map of the White Canyon-7 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-163, scale 1:24,000.

509. Reed, J.C., Jr., 1955, Photogeologic map of the White Canyon-1 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-33, scale 1:24,000.

510. Orkild, P.P., 1956, Photogeologic map of the White Canyon-8 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-150, scale 1:24,000.

511. Marshall, C.H., 1955, Photogeologic map of the Clay Hills-1 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-51, scale 1:24,000.

512. Bjorklund, L.J., and Robinson, G.B., Jr., 1968, Ground-water resources of the Sevier River basin between Yuba Dam and Leamington Canyon, Utah: U.S. Geological Survey Water-Supply Paper 1848, plate 1, scale 1:62,500.

513. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-10 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-26, scale 1:24,000.

514. Hawley, C.C., Robeck, R.C., and Dyer, H.B., 1968, Geology, altered rocks, and ore deposits of the San Rafael Swell, Emery County, Utah: U.S. Geological Survey Bulletin 1239, plate 4, scale 1:24,000.

515. Marshall, C.H., 1955, Photogeologic map of the Clay Hills-8 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-58, scale 1:24,000.

516. Dover, J.H., 1985, Geologic map and structure sections of the Logan 30' x 60' quadrangle, Utah and Wyoming: U.S. Geological Survey Open-File Report 85-216, sheet 1, scale 1:100,000. (NC, Da, M, Db, U; Utah survey.)

517. Orkild, P.P., 1955, Photogeologic map of the Clay Hills-9 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-79, scale 1:24,000.

518. Hackman, R.J., 1952, Photogeologic maps of the Elk Ridge 13, 9, 16 quadrangles, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-61, scale 1:24,000. (NC, Db, U.) Partially superseded.

519. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-15 quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-30, scale 1:24,000.

520. Scott, R.W., Jr., and Pantea, M.P., 1985, Preliminary geologic map of the Dragon quadrangle, Uintah County, Utah, and Rio Blanco County, Colorado: U.S. Geological Survey Miscellaneous Field Studies Map MF-1774, scale 1:24,000.

521. Platt, J.N., 1955, Photogeologic map of the Bluff-4 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-59, scale 1:24,000.

522. Holladay, J.C., 1984, Geology of the northern Canyon Range, Millard and Juab Counties, Utah: Brigham Young University Geology Studies, v. 31, p. 1-28, fig. 8, scale 1:24,000.

523. Orkild, P.P., 1955, Photogeologic map of the Bluff-5 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-60, scale 1:24,000.

524. Mullens, T.E., 1969, Geologic map of the Causey Dam quadrangle, Weber County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-790, scale 1:24,000.

525. Hackman, R.J., 1955, Photogeologic map of the Circle Cliffs-16 quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-31, scale 1:24,000.

526. Cooley, M.E., Harshbarger, J.W., Akers, J.P., and Hardt, W.F., 1969, Regional hydrogeology of the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah: U.S. Geological Survey Professional Paper 521-A, plate 1, scale 1:125,000.

527. Osterwald, F.W., Dunrud, C.R., and Maberry, J.O., 1969, Preliminary geologic map of the Columbia area, Carbon and Emery Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-582, scale 1:6,000.

528. Van Horn, Richard, 1969, Preliminary geologic map of the southern half of the Fort Douglas quadrangle, Salt Lake County, Utah: U.S. Geological Survey Open-File Report 69-308, scale 1:24,000. (NC, Da, M, Db, U.)

529. Garvin, R.F., 1969, Stratigraphy and economic significance, Currant Creek Formation, northwest Uinta Basin, Utah: Utah Geological and Mineralogical Survey Special Studies 27, plate 1, scale 1:38,000.

530. Peterson, Fred, 1969, Cretaceous sedimentation and tectonism in the southeastern Kaiparowits region, Utah: U.S. Geological Survey Open-File Report 69-202, plate 1, scale 1:125,000. (NC, Da, M.)

531. Belt, C.B., Jr., 1969, Preliminary geochemical study of the Alta and Clayton Peak intrusives, in Guidebook of northern Utah: Utah Geological and Mineralogical Survey Bulletin 82, plate 1, scale 1:24,000.

532. Eicher, L.J., and Myers, A.R., 1969, Maps showing locations of holes drilled in 1953 and 1954 by U.S. Geological Survey, Beaver Mesa area, Mesa County, Colorado, and Grand County, Utah: U.S. Geological Survey Open-File Report 69-88, fig. 2, scale 1:12,000. (NC, Da, M.)

533. Waldrop, H.A., and Sutton, R.L., 1967, Preliminary geologic map and coal deposits of the northwest quarter of the Nipple Butte quadrangle, Kane County, Utah: Utah Geological and Mineralogical Survey Map 24-A, scale 1:31,680.

534. Waldrop, H.A., and Sutton, R.L., 1967, Preliminary geologic map and coal deposits of the northeast quarter of the Nipple Butte quadrangle, Kane County, Utah: Utah Geological and Mineralogical Survey Map 24-B, scale 1:31,680.

535. Peterson, Fred, 1967, Preliminary geologic map and coal deposits of the northwest quarter of the Gunsight Butte quadrangle, Kane County, Utah: Utah Geological and Mineralogical Survey Map 24-E, scale 1:31,680.

536. Peterson, Fred, and Horton, G.W., 1967, Preliminary geologic map and coal deposits of the northeast quarter of the Gunsight Butte quadrangle, Kane County, Utah: Utah Geological and Mineralogical Survey Map 24-F, scale 1:31,680.

537. Waldrop, H.A., and Sutton, R.L., 1967, Preliminary geologic map and coal deposits of the southwest quarter of the Nipple Butte quadrangle, Kane County, Utah and Coconino County, Arizona: Utah Geological and Mineralogical Survey Map 24-D, scale 1:31,680.

538. Waldrop, H.A., and Peterson, Fred, 1967, Preliminary geologic map of the southeast quarter of the Nipple Butte quadrangle, Kane County, Utah, and Coconino County, Arizona: Utah Geological and Mineralogical Survey Map 24-C, scale 1:31,680.

539. Peterson, Fred, and Waldrop, H.A., 1967, Preliminary geologic map of the southeast quarter of the Gunsight Butte quadrangle, Kane and San Juan Counties, Utah, and Coconino County, Arizona: Utah Geological and Mineralogical Survey Map 24-G, scale 1:31,680.

540. Hintze, L.F., 1984, Geology of the Cricket Mountains, Millard County, Utah: U.S. Geological Survey Open-File Report 84-683, plate 1, Red Pass quad, scale 1:24,000, plate 2, Neels quad, scale 1:24,000, plate 3, Sevier Lake NE quad, scale 1:24,000, plate 4, Candland Spring quad, scale 1:24,000, plate 5, Borden quad, scale 1:24,000, plate 6, Headlight Mtn quad, scale 1:24,000, plate 7, Cat Canyon quad, scale 1:24,000, plate 8, Cruz quad, scale 1:24,000. (NC, Da, M, Db, U; Utah survey.)

541. Conrad, O.G., 1969, Tertiary volcanic rocks of Needles Range, western Utah: Utah Geological and Mineralogical Survey Special Studies 29, plate 5, scale 1:63,360.

542. Fischer, W.A., and Condon, W.H., 1953, Photogeologic map of Navajo Mountain 9 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 53-69, scale 1:24,000. (NC, Db, U.)

543. Jefferson, W.S., 1982, Structural and stratigraphic relations of Upper Cretaceous to Lower Tertiary orogenic sediments in the Cedar Hills, Utah, in Overthrust belt of Utah: Utah Geological Association Publication 10, p. 65-80, fig. 4, scale 1:63,360.

544. Whitebread, D.H., 1969, Geologic map of the Wheeler Peak and Garrison quadrangles, Nevada and Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-578, scale 1:48,000.

545. Lindsay, J.B., ed., 1969, Geologic guidebook of the Uinta Mountains, Utah's maverick range: Intermountain Association of Petroleum Geologists Guidebook, 16th annual field conference, map, scale 1:250,000. Also other maps.

546. Hintze, L.F., (ed.), 1962, Geology of the Southern Wasatch Mountains and vicinity, Utah--A symposium: Brigham Young University Geology Studies, v. 9, pt. 1, map, scale 1:125,000.

547. Allmendinger, R.W., and Jordan, T.E., 1984, Mesozoic structure of the Newfoundland Mountains, Utah--Horizontal shortening and subsequent extension in the hinterland of the Sevier belt: Geological Society of America Bulletin, v. 95, p. 1280-1292, fig. 2, scale 1:130,000, fig. 4, scale 1:60,000.

548. Orkild, P.P., 1955, Photogeologic map of the Bluff-12 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-80, scale 1:24,000.

549. Morris, H.T., and Kopf, R.W., 1970, Preliminary geologic map and cross section of the Cherry Creek quadrangle and adjacent part of the Dutch Peak quadrangle, Juab County, Utah: U.S. Geological Survey Open-File Report 70-233, scale 1:24,000. (NC, Da, M, Db, U.)

550. Morris, H.T., and Kopf, R.W., 1970, Preliminary geologic map and cross section of the Maple Peak quadrangle and adjacent part of the Sabie Mountain quadrangle, Juab County, Utah: U.S. Geological Survey Open-File Report 70-234, scale 1:24,000. (NC, Da, M, Db, U.)

551. Cashion, W.B., 1984, Geologic map of the Agency Draw NW quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1717, scale 1:24,000.

552. Miller, C.F., 1955, Photogeologic map of the Elk Ridge-14 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-8, scale 1:24,000. Supersedes Map I-56.

553. Bromfield, C.S., Baker, A.A., and Crittenden, M.D., Jr., 1970, Geologic map of the Heber quadrangle, Wasatch and Summit Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-864, scale 1:24,000.

554. Davidson, E.S., Brew, D.A., and Carswell, L.D., 1958, Preliminary geologic map of the Circle Cliffs 4 NE quadrangle, Garfield County, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-158, scale 1:24,000. Supersedes Map I-25.

555. Davis, R.L., 1983, Geology of the Dog Valley-Red Ridge area, southern Pavant Mountains, Millard County, Utah: Brigham Young University Geology Studies, v. 30, part 1, p. 19-36, plate 1, Dog Valley, scale 1:24,000, plate 2, Red Ridge, scale 1:24,000.

556. Meibos, L.C., 1983, Structure and stratigraphy of the Nephi NW 7 1/2 minute quadrangle, Juab County, Utah: Brigham Young University Geology Studies, v. 30, part 1, p. 37-58, fig. 20, scale 1:24,000.

557. Millard, A.W., Jr., 1983, Geology of the southwestern quarter of the Scipio North (15- minute) quadrangle, Millard and Juab Counties, Utah: Brigham Young University Geology Studies, v. 30, part 1, p. 59-82, fig. 4, scale 1:24,000.

558. Ellis, E.G., 1981, Geologic map and coal sections of the Cap quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 81-612, sheet 1, scale 1:24,000. (NC, Da, M, Db, U.)

559. Bullock, K.C., 1970, Iron deposits of Utah: Utah Geological and Mineralogical Survey Bulletin 88, plate 1, scale 1:42,000. Also mine maps.

560. Tooker, E.W., and Roberts, R.J., 1971, Geologic map of the Magna quadrangle, Salt Lake County Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-923, scale 1:24,000.

561. Hinrichs, E.N., Connor, J.J., Moore, H.J., II, and Krummel, W.J., Jr., 1971, Geologic map of the southeast quarter of the Hatch Point quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-669, scale 1:24,000.

562. Orkild, P.P., 1956, Photogeologic map of the Woodside-13 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-123, scale 1:24,000.

563. Marshall, C.H., 1956, Photogeologic map of the Bluff-3 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-181, scale 1:24,000.

564. Tooker, E.W., and Roberts, R.J., 1971, Geologic map of the Mills Junction quadrangle, Tooele County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-924, scale 1:24,000.

565. Palmer, D.E., 1970, Geology of Stansbury Island, Tooele County, Utah: Brigham Young University Geology Studies, v. 17, pt. 2, plate 1, scale 1:24,000.

566. Tooker, E.W., and Roberts, R.J., 1971, Geologic map of the Garfield quadrangle, Salt Lake and Tooele Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-922, scale 1:24,000.

567. Morton, L.B., 1984, Geology of the Mount Ellen quadrangle, Henry Mountains, Garfield County, Utah: Brigham Young University Geology Studies, v. 31, p. 67-95, fig. 3, scale 1:80,000.

568. Whitlock, W.W., 1984, Geology of the Steele Butte quadrangle, Garfield County, Utah: Brigham Young University Geology Studies, v. 31, p. 141-165, figs. 21 and 22, scale 1:70,000.

569. Ellis, E.G., and Frank, J.R., 1981, Geologic map and coal sections of the Mahogany Point quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 81-718, sheet 1, scale 1:24,000. (NC, Da, M, Db, U.)

570. Maberry, J.O., 1971, Sedimentary features of the Blackhawk Formation (Cretaceous) in the Sunnyside district, Carbon County, Utah: U.S. Geological Survey Professional Paper 688, fig. 1, scale 1:24,000. Supersedes OF 68-170.

571. Budding, K.E., 1982, Eruptive history, petrology, and petrogenesis of the Joe Lott Tuff Member of the Mount Belknap volcanics, Marysvale volcanic field, west-central Utah: U.S. Geological Survey Open-File Report 82-891, plate 1, scale 1:24,000. (NC, Da, M, Db, U.)

572. Osterwald, F.W., Bennetti, J.B., Jr., Dunrud, C.R., and Maberry, J.O., 1971, Field instrumentation studies of earth tremors and their geologic environments in central Utah coal mining areas: U.S. Geological Survey Professional Paper 693, fig. 15, scale 1:63,360, fig. 21, scale 1:63,360.

573. Steven, T.A., Cunningham, C.G., and Anderson, J.J., 1984, Geologic history and uranium potential of the Big John caldera, southern Tushar Mountains, Utah: U.S. Geological Survey Professional Paper 1299-B, fig. 11, scale 1:130,000. Supersedes OF 79-527.

574. Staatz, M.H., 1972, Geologic map of the Dugway Proving Ground SW quadrangle, Tooele County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-992, scale 1:24,000.

575. Stuart-Alexander, D.E., Shoemaker, E.M., and Moore, H.J., II, 1972, Geologic map of the Mule Ear Diatreme, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-674, scale 1:2,400.

576. Baker, A.A., 1972, Geologic map of NE part of Spanish Fork Peak quadrangle, Utah: U.S. Geological Survey Open-File Report 72-9, scale 1:24,000. (NC, Da, M, Db, U.)

577. Goode, H.D., 1958, The geology and distribution of aquifers in the southeastern part of San Juan County, Utah: U.S. Geological Survey Open-File Report 58-38, fig. 5, scale 1:125,000. (NC.)

578. Crittenden, M.D., Jr., 1972, Geologic map of the Browns Hole quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-968, scale 1:24,000.

579. Compton, R.R., 1972, Geologic map of the Yost quadrangle, Box Elder County, Utah and Cassia County, Idaho: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-672, scale 1:31,680.

580. Orkild, P.P., 1955, Photogeologic map of the Bluff-6 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-53, scale 1:24,000.

581. Miller, C.F., 1955, Photogeologic map of the Bluff-11 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-54, scale 1:24,000.

582. Morris, H.T., 1978, Preliminary geologic map of the Delta 2^0 quadrangle, west- central Utah; U.S. Geological Survey Open-File Report 78-705, map, scale 1:250,000. (NC, Da, M, Db, U.)

583. Miller, C.F., 1955, Photogeologic map of the Elk Ridge-1 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-82, scale 1:24,000.

584. Weitz, J.L., and Light, T.D., 1981, Mineral resource potential of the Dark Canyon Instant Study Area, San Juan County, Utah: U.S. Geological Survey Open-File Report 81-734, map, scale 1:62,500. (NC, Da, M, Db, U.)

585. Baker, A.A., 1972, Geologic map of the Bridal Veil Falls quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-998, scale 1:24,000.

586. Williams, P.L., 1972, Map showing types of bedrock and surficial deposits, Salina quadrangle, Utah (Folio of the Salina quadrangle, Utah): U.S. Geological Survey Miscellaneous Geologic Investigations Map I-591-H, scale 1:250,000.

587. Williams, P.L., and Hackman, R.J., 1971, Geology, structure, and uranium deposits of the Salina quadrangle, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-591, scale 1:250,000.

588. Mullens, T.E., and Cole, T.H., 1972, Geologic map of the northeast quarter of the Morgan 15-minute quadrangle, Morgan and Weber Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-304, scale 1:24,000.

589. Dunrud, C.R., and Barnes, B.K., 1972, Engineering geologic map of the Geneva Mine area, Carbon and Emery Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-704, scale 1:6,000.

590. Orkild, P.P., 1955, Photogeologic map of the Woodside-12 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-111, scale 1:24,000.

591. Cordova, R.M., Sandberg, G.W., and McConkie, Wilson, 1972, Ground-water conditions in the central Virgin River basin, Utah: U.S. Geological Survey Open-File Report 70-55, fig. 2, scale 1:125,000. (NC, U.)

592. Sumsion, C.T., and Bolke, E.L., 1972, Water resources of part of Canyonlands National Park, southeastern Utah: U.S. Geological Survey Open-File Report 72-363, scale 1:62,500. (NC, U.)

593. Rees, D.C., Erickson, M.P., and Whelan, J.A., 1973, Geology and diatremes of Deseret Mountain, Utah: Utah Geological and Mineralogical Survey Special Studies 42, plate 1, scale 1:50,000.

594. Moore, W.J., 1973, Igneous rocks in the Bingham mining district, Utah: U.S. Geological Survey Professional Paper 629-B, fig. 2, scale 1:40,000, fig. 31, scale 1:63,360.

595. Moore, W.J., 1973, Preliminary geologic map of western Traverse Mountains and northern Lake Mountains, Salt Lake and Utah Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-490, scale 1:24,000.

596. Kent, B.H., 1955, Photogeologic map of the Straight Cliffs-8 quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I-81, scale 1:24,000.

597. Peterson, Fred, 1975, Geologic map of the Sooner Bench quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Investigations Map I-874, scale 1:24,000.

598. Cashion, W.B., 1973, Geologic and structure map of the Grand Junction quadrangle, Colorado and Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-736, scale 1:250,000.

599. Zeller, H.D., 1973, Geologic map and coal resources of the Death Ridge quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Coal Investigations Map C-58, scale 1:24,000.

600. Orkild, P.P., 1955, Photogeologic map of the Woodside-5 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-5, scale 1:24,000.

601. Abou-Zied, S., and Whelan, J.A., 1973, Geology and mineralogy of the Milford Flat quadrangle, Star District, Beaver County, Utah: Utah Geological and Mineralogical Survey Special Studies 46, plate 1, scale 1:12,500.

602. Peterson, Fred, and Barnum, B.E., 1973, Geologic map of the southwest quarter of the Cummings Mesa quadrangle, Kane and San Juan Counties, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-759, scale 1:24,000.

603. Zeller, H.D., 1973, Geologic map and coal resources of the Carcass Canyon quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Coal Investigations Map C-56, scale 1:24,000.

604. Zeller, H.D., 1973, Geologic map and coal resources of the Dave Canyon quadrangle, Garfield County, Utah: U.S. Geological Survey Coal Investigations Map C-59, scale 1:24,000.

605. Detterman, J.S., 1955, Photogeologic map of the Kaiparowits Peak-9 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-15, scale 1:24,000.

606. Bowers, W.E., 1973, Geologic map and coal resources of the Griffin Point quadrangle, Garfield County, Utah: U.S. Geological Survey Coal Investigations Map C-61, scale 1:24,000.

607. Goode, H.D., 1973, Preliminary geologic map of the Bald Knoll quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-520, scale 1:24,000.

608. Goode, H.D., 1973, Preliminary geologic map of the Skutumpah Creek quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-521, scale 1:24,000.

609. Mullens, T.E., and Laraway, W.H., 1973, Geologic map of the Morgan 7 1/2-minute quadrangle, Morgan County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-318, scale 1:24,000.

610. Peterson, Fred, 1973, Geologic map of the southwest quarter of the Gunsight Butte quadrangle, Kane and San Juan Counties, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Field Studies Map MF-306, scale 1:24,000.

611. Peterson, Fred, and Barnum, B.E., 1973, Geologic map of the southeast quarter of the Cummings Mesa quadrangle, Kane and San Juan Counties, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-758, scale 1:24,000.

612. Cashion, W.B., 1974, Geologic map of the Southam Canyon quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-579, scale 1:24,000.

613. Sable, V.H., 1955, Photogeologic map of the Woodside-4 quadrangle, Emery and Carbon Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-110, scale 1:24,000.

614. Bowers, W.E., 1973, Geologic map and coal resources of the Upper Valley quadrangle, Garfield County, Utah: U.S. Geological Survey Coal Investigations Map C-60, scale 1:24,000.

615. Sayre, R.L., 1974, Geology and mineralization of the Church Hills, Millard County, Utah: Utah Geological and Mineralogical Survey Special Studies 47, plate 1, scale 1:7,000.

616. Baker, A.A., 1973, Geologic map of the Springville quadrangle, Utah County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1103, scale 1:24,000.

617. Osterwald, F.W., and Maberry, J.O., 1974, Engineering geologic map of the Woodside quadrangle, Emery and Carbon Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-798, scale 1:48,000.

618. Averitt, Paul, and Threet, R.L., 1973, Geologic map of the Cedar City quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1120, scale 1:24,000.

619. Zeller, H.D., and Stephens, E.V., 1973, Geologic map and coal resources of the Seep Flat quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Coal Investigations Map C-65, scale 1:24,000.

620. Kent, B.H., 1955, Photogeologic map of the Circle Cliffs-13 quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-28, scale 1:24,000.

621. Bowers, W.E., 1973, Geologic map and coal resources of the Pine Lake quadrangle, Garfield County, Utah: U.S. Geological Survey Coal Investigations Map C-66, scale 1:24,000.

622. Miller, C.F., 1956, Photogeologic map of the Elk Ridge-8 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-126, scale 1:24,000.

623. Bjorklund, L.J., and McGreevy, L.J., 1974, Ground-water resources of the lower Bear River drainage basin, Box Elder County, Utah: Utah Department of Natural Resources Technical Publication 44, plate 1, scale 1:125,000.

624. Hackman, R.J., and Wyant, D.G., 1973, Geology, structure, and uranium deposits of the Escalante quadrangle, Utah and Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-744, scale 1:250,000.

625. Hintze, L.F., 1974, Preliminary geologic map of the Conger Mountain quadrangle, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-634, scale 1:48,000.

626. Hintze, L.F., 1974, Preliminary geologic map of the Crystal Peak quadrangle, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-635, scale 1:48,000.

627. Hintze, L.F., 1974, Preliminary geologic map of The Barn quadrangle, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-633, scale 1:48,000.

628. Hintze, L.F., 1974, Preliminary geologic map of the Notch Peak quadrangle, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-636, scale 1:48,000.

629. Hintze, L.F., 1974, Preliminary geologic map of the Wah Wah Summit quadrangle, Millard and Beaver Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-637, scale 1:48,000.

630. Bowers, W.E., 1974, Preliminary geologic map and coal resources of the Henrieville quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Coal Investigations Map C-74, scale 1:24,000.

631. Marshall, C.H., 1956, Photogeologic map of the Desert Lake-16 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-122, scale 1:24,000.

632. Hose, R.K., 1974, Geologic map of the Granite Mountain SW quadrangle, Juab and Millard Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-831, scale 1:24,000.

633. Thomson, K.C., and Perry, L.I., 1975, Reconnaissance study of the Stateline mining district, Iron County, Utah: Utah Geology, v. 2, no. 1, plate 1, scale 1:12,500.

634. Cunningham, C.G., Steven, T.A., Campbell, D.L., Naeser, C.W., Pitkin, J.A., and Duval, J.S., 1984, Multiple episodes of igneous activity, mineralization, and alteration in the western Tushar Mountains, Utah: U.S. Geological Survey Professional Paper 1299-A, fig. 2, scale 1:55,000.

635. Callaghan, Eugene, and Parker, R.L., 1961, Geologic map of part of the Beaver quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-202, scale 1:62,500.

636. Hose, R.K., 1974, Geologic map of the Trout Creek SE quadrangle, Juab and Millard Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-827, scale 1:24,000.

637. Williams, P.L., 1964, Geology, structure, and uranium deposits of the Moab quadrangle, Colorado and Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-360, scale 1:250,000.

638. Mackin, J.H., and Rowley, P.D., 1975, Geologic map of the Avon SE quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1294, scale 1:24,000.

639. Cass, J.T., 1955, Photogeologic map of the Desert Lake-9 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-103, scale 1:24,000.

640. Everitt, B.L., and Kaliser, B.N., 1980, Geology for assessment of seismic risk in the Tooele and Rush Valleys, Tooele County, Utah: Utah Geological and Mineral Survey Special Studies 51, plate IIIa, IIIb, and IIIc, scale 1:50,000.

641. Mackin, J.H., and Rowley, P.D., 1976, Geologic map of the Three Peaks quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1297, scale 1:24,000.

642. Rowley, P.D., 1975, Geologic map of the Enoch NE quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1301, scale 1:24,000.

643. Morris, H.T., 1975, Geologic map and sections of the Tintic Mountain quadrangle and adjacent part of the McIntyre quadrangle, Juab and Utah Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-883, scale 1:24,000.

644. Doelling, H.H., 1974, Geology and mineral resources of Garfield County, Utah: Utah Geological and Mineralogical Survey Bulletin 107, plate 1, scale 1:250,000.

645. Best, M.G., 1976, Geologic map of the Lopers Spring quadrangle, Beaver County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-739, scale 1:24,000.

646. Compton, R.R., 1975, Geologic map of the Park Valley quadrangle, Box Elder County, Utah, and Cassia County, Idaho: U.S. Geological Survey Miscellaneous Investigations Series Map I-873, scale 1:31,680.

647. Mackin, J.H., Nelson, W.H., and Rowley, P.D., 1976, Geologic map of the Cedar City NW quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1295, scale 1:24,000.

648. Rowley, P.D., 1976, Geologic map of the Enoch NW quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1302, scale 1:24,000.

649. Callaghan, Eugene, 1973, Geologic map of the Marysvale region, Piute County and parts of adjoining counties, Utah: Utah Geological and Mineralogical Survey Map 34, scale 1:125,000.

650. Baker, A.A., 1976, Geologic map of the west half of the Strawberry Valley quadrangle, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-931, scale 1:63,360.

651. Rowley, P.D., and Threet, R.L., 1976, Geologic map of the Enoch quadrangle, Iron County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1296, scale 1:24,000.

652. Sorensen, M.L., and Crittenden, M.D., Jr., 1974, Preliminary geologic map of the Huntsville quadrangle, Weber and Cache Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-592, scale 1:24,000.

653. Sorensen, M.L., and Crittenden, M.D., Jr., 1979, Geologic map of the Huntsville quadrangle, Weber and Cache Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1503, scale 1:24,000.

654. Hackman, R.J., 1955, Photogeologic map of the Aneth-8 quadrangle, San Juan County, Utah, and Montezuma County, Colorado: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-97, scale 1:24,000.

655. Hackman, R.J., 1957, Photogeologic map of the Johnson NE quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-245, scale 1:24,000.

656. Pomeroy, J.S., 1958, Photogeologic map of the Johnson NW quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-267, scale 1:24,000.

657. Detterman, J.S., 1956, Photogeologic map of the Johnson SW quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-164, scale 1:24,000.

658. Detterman, J.S., and Hackman, R.H., 1957, Photogeologic map of the Johnson SE quadrangle, Kane County, Utah, and Coconino County, Arizona: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-248, scale 1:24,000.

659. Smith, J.F., Jr., Huff, L.C., Hinrichs, E.N., and Luedke, R.G., 1957, Preliminary geologic map of the Notom 4 SW quadrangle, Utah: U.S. Geological Survey Mineral Investigations Field Studies Map MF-114, scale 1:24,000. Supersedes Map I-34.

660. Miller, C.F., 1956, Photogeologic map of the Elk Ridge-9 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-127, scale 1:24,000.

661. Erickson, A.J., Jr., Phillips, W.R., and Garmoe, W.J., eds., 1968, Park City District, Utah: Utah Geological Society Guidebook to the Geology of Utah, no. 22, map, scale 1:24,000.

662. Calkins, F.C., and Butler, B.S., 1943, Geology and ore deposits of the Cottonwood-American Fork area: U.S. Geological Survey Professional Paper 201, plate 3, scale 1:24,000.

663. Baker, A.A., Sharp, B.J., and Crittenden, M.D., 1952, Geologic map of the area south of Park City, Utah: U.S. Geological Survey Open-File Report 52-10, scale 1:24,000. (NC, Db, U.)

664. Butler, B.S., and others, 1920, The ore deposits of Utah: U.S. Geological Survey Professional Paper 111, plate 27, scale 1:24,000, plate 40, scale 1:125,000. Also other maps.

665. Joesting, H.R., Case, J.E., and Plouff, Donald, 1966, Regional geophysical investigations of the Moab-Needles area, Utah: U.S. Geological Survey Professional Paper 516-C, plate 1, scale 1:125,000.

666. Mabey, D.R., and Morris, H.T., 1967, Geologic interpretation of gravity and aeromagnetic maps of Tintic Valley and adjacent areas, Tooele and Juab Counties, Utah: U.S. Geological Survey Professional Paper 516-D, plate 1, scale 1:125,000.

667. Boutwell, J.M., 1905, Economic geology of the Bingham mining district: U.S. Geological Survey Professional Paper 38, plate 1, scale 1:20,000. Also mine maps.

668. Stringham, Bronson, 1953, Granitization and hydrothermal alteration at Bingham, Utah: Geological Society of America Bulletin, v. 64, no. 8, plate 1, scale 1:4,800.

669. Keith, Arthur, and Boutwell, J.M., 1935, Copper resources of the world: 16th International Geologic Congress, v. 1, plate 20, scale 1:20,000.

670. Van Horn, Richard, 1982, Surficial geologic map of the Salt Lake City North quadrangle, Davis and Salt Lake Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1404, scale 1:24,000.

671. Cunningham, C.G., and Steven, T.A., 1979, Mount Belknap and Red Hill calderas and associated rocks, Marysvale volcanic field, west-central Utah: U.S. Geological Survey Bulletin 1468, fig. 4, scale 1:150,000.

672. Holmes, C.N., and Page, B.M., 1956, Geology of the bituminous sandstone deposits near Sunnyside, Carbon County, Utah, in Geology and economic deposits of east-central Utah: Intermountain Association of Petroleum Geologists Guidebook, 7th Annual Field Conference, p. 171-177, fig. 1, scale 1:12,000.

673. Osterwald, F.W., Mayberry, J.O., and Dunrud, C.R., 1981, Bedrock, surficial, and economic geology of the Sunnyside coal-mining district, Carbon and Emery Counties, Utah: U.S. Geological Survey Professional Paper 1166, plate 1, Sunnyside district, scale 1:62,500, plate 2, Sunnyside coal mines, scale 1:6,000.

674. Van Horn, Richard, 1972, Surficial geologic map of the Sugar House quadrangle, Salt Lake County, Utah (Folio of the Sugar House quadrangle, Utah): U.S. Geological Survey Miscellaneous Geologic Investigations Map I-766-A, scale 1:24,000.

675. Crittenden, M.D., Jr., 1965, Geology of the Sugar House quadrangle, Salt Lake County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-380, scale 1:24,000.

676. Best, M.G., 1984, Preliminary geologic map and sections of the area between Hamlin Valley and Escalante Desert, Iron County, Utah: U.S. Geological Survey Open-File Report 84-154, scale 1:50,000. (NC, Da, M, Db, U; Utah survey.)

677. Blanchard, L.F., and Sanchez, J.D., 1983, Geologic map and coal sections of the Old Woman Plateau quadrangle, Sevier County, Utah: U.S. Geological Survey Open-File Report 82-1093, sheet 1, scale 1:24,000. (NC, Da, M, Db, U; Utah survey.)

678. Detterman, J.S., 1955, Photogeologic map of the Emery-2 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-9, scale 1:24,000.

679. Hayes, P.T., and Sanchez, J.D., 1979, Geologic map and coal resources of the Emery West quadrangle, Emery and Sevier Counties, Utah: U.S. Geological Survey Coal Investigations Map C-82, scale 1:24,000.

680. Bennett, H.S., 1955, Photogeologic map of the Emery-10 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-11, scale 1:24,000.

681. Bunnag, D., and Moustafa, G., 1957, Photogeologic map of the Emery-15 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-261, scale 1:24,000.

682. Hemphill, W.R., 1959, Photogeologic map of the Notom-2 quadrangle, Wayne County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-302, scale 1:24,000.

683. Detterman, J.S., 1956, Photogeologic map of the Castle Dale-16 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-124, scale 1:24,000.

684. Orkild, P.P., 1956, Photogeologic map of the Emery-1 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-166, scale 1:24,000.

685. Condon, W.H., 1956, Photogeologic map of the Emery-8 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-177, scale 1:24,000.

686. Hemphill, W.R., 1959, Photogeologic map of the Notom-1 quadrangle, Wayne County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-294, scale 1:24,000.

687. Hemphill, W.R., 1957, Photogeologic map of the Notom-8 quadrangle, Wayne County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-262, scale 1:24,000.

688. Hemphill, W.R., 1959, Photogeologic map of the Mount Ellen-4 quadrangle, Wayne County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-280, scale 1:24,000.

689. Hemphill, W.R., 1958, Photogeologic map of the Mount Ellen-5 quadrangle, Wayne County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-250, scale 1:24,000.

690. Orkild, P.P., 1955, Photogeologic map of the Tidwell-4 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-112, scale 1:24,000.

691. Orkild, P.P., 1955, Photogeologic map of the Tidwell-5 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-113, scale 1:24,000.

692. Miller, C.F., 1955, Photogeologic map of the Tidwell-12 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-3, scale 1:24,000.

693. Ray, R.G., 1956, Photogeologic map of the Orange Cliffs-13 quadrangle, Garfield County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-178, scale 1:24,000.

694. Sable, V.H., 1956, Photogeologic map of the Tidwell-2 quadrangle, Emery and Grand Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-162, scale 1:24,000.

695. Sable, V.H., 1955, Photogeologic map of the Tidewell-7 quadrangle, Emery and Grand Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-12, scale 1:24,000.

696. Olson, A.B., 1956, Photogeologic map of the Tidwell-10 quadrangle, Emery and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-186, scale 1:24,000.

697. Sable, V.H., 1955, Photogeologic map of the Tidwell-15 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-109, scale 1:24,000.

698. Sable, V.H., 1955, Photogeologic map of the Tidwell-1 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-87, scale 1:24,000.

699. Sable, V.H., 1955, Photogeologic map of the Tidwell-8 quadrangle, Grand and Emery Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-89, scale 1:24,000.

700. Bates, C.E., and Sable, V.H., 1955, Photogeologic map of the Tidwell-9 quadrangle, Emery and Grand Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-114, scale 1:24,000.

701. Orkild, P.P., 1955, Photogeologic map of the Tidwell-16 quadrangle, Emery and Grand Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-115, scale 1:24,000.

702. Platt, J.N., 1955, Photogeologic map of the Orange Cliffs-16 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-16, scale 1:24,000.

703. Marshall, C.H., 1955, Photogeologic map of the Tidwell-3 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-88, scale 1:24,000.

704. Bennett, H.S., 1955, Photogeologic map of the Tidwell-6 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-108, scale 1:24,000.

705. Olson, A.B., 1956, Photogeologic map of the Tidwell-11 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-227, scale 1:24,000.

706. Detterman, J.S., 1955, Photogeologic map of the Moab-4 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-85, scale 1:24,000.

707. Detterman, J.S., 1955, Photogeologic map of the Moab-5 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-57, scale 1:24,000.

708. Sable, V.H., 1955, Photogeologic map of the Moab-12 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-117, scale 1:24,000.

709. Bergquist, W.E., 1955, Photogeologic map of the Moab-13 quadrangle, Grand and Emery Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-118, scale 1:24,000.

710. Sable, V.H., 1955, Photogeologic map of the Carlisle-4 quadrangle, Wayne and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-69, scale 1:24,000.

711. Sable, V.H., 1955, Photogeologic map of the Carlisle-5 quadrangle, Wayne and San Juan Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-70, scale 1:24,000.

712. Platt, J.N., 1955, Photogeologic map of the Carlisle-12 quadrangle, Garfield, San Juan, and Wayne Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-75, scale 1:24,000.

713. Platt, J.N., 1955, Photogeologic map of the Carlisle-13 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-2, scale 1:24,000.

714. Detterman, J.S., 1955, Photogeologic map of the Moab-6 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-86, scale 1:24,000.

715. Bates, C.E., 1955, Photogeologic map of the Moab-11 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-107, scale 1:24,000.

716. Sable, V.H., 1955, Photogeologic map of the Moab-14 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-119, scale 1:24,000.

717. Bates, C.E., 1955, Photogeologic map of the Carlisle-3 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-68, scale 1:24,000.

718. Bates, C.E., 1955, Photogeologic map of the Carlisle-6 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-71, scale 1:24,000.

719. Platt, J.N., 1955, Photogeologic map of the Carlisle-11 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-74, scale 1:24,000.

720. Hackman, R.J., 1955, Photogeologic map of the Carlisle-14 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-6, scale 1:24,000.

721. Bates, C.E., 1955, Photogeologic map of the Moab-10 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-116, scale 1:24,000.

722. Sable, V.H., 1956, Photogeologic map of the Moab-15 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-128, scale 1:24,000.

723. Hinrichs, E.N., Krummel, W.J., Jr., Connor, J.J., and Moore, H.J., II, 1971, Geologic map of the southwest quarter of the Hatch Point quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-670, scale 1:24,000.

724. Sable, V.H., 1955, Photogeologic map of the Carlisle-7 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-72, scale 1:24,000.

725. Detterman, J.S., 1955, Photogeologic map of the Carlisle-10 quadrangle, San Juan County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-73, scale 1:24,000.

726. Hackman, R.J., 1955, Photogeologic map of the Carlisle-15 quadrangle, San Juan, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-76, scale 1:24,000.

727. Hemphill, W.R., 1955, Photogeologic map of the Moab-16 quadrangle, Grand County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-83, scale 1:24,000.

728. Orkild, P.P., 1955, Photogeologic map of the Desert Lake-8 quadrangle, San Juan and Garfield Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-4, scale 1:24,000.

729. Hackman, R.J., 1959, Photogeologic map of the Coach Creek NE quadrangle, Grand County, Utah, and Mesa County, Colorado: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-279, scale 1:24,000.

730. Hackman, R.J., 1959, Photogeologic map of the Coach Creek SE quadrangle, Grand County, Utah, and Mesa County, Colorado: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-278, scale 1:24,000.

731. Marshall, C.H., 1959, Photogeologic map of the Desert Lake-4 quadrangle, Emery and Carbon Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-295, scale 1:24,000.

732. Miller, C.F., 1955, Photogeologic map of the Desert Lake-12 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-106, scale 1:24,000.

733. Marshall, C.H., 1956, Photogeologic map of the Desert Lake-13 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-154, scale 1:24,000.

734. Marshall, C.H., 1957, Photogeologic map of the Desert Lake-3 quadrangle, Emery and Carbon Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-246, scale 1:24,000.

735. Miller, C.F., 1955, Photogeologic map of the Desert Lake-6 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-101, scale 1:24,000.

736. Kent, B.H., 1955, Photogeologic map of the Desert Lake-11 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-105, scale 1:24,000.

737. Kent, B.H., 1955, Photogeologic map of the Desert Lake-14 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-120, scale 1:24,000.

738. Detterman, J.S., 1955, Photogeologic map of the Desert Lake-1 quadrangle, Emery and Carbon Counties, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-99, scale 1:24,000.

739. Witkind, I.J., 1980, Reconnaissance geologic map of the Mounds quadrangle, Carbon and Emery Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1202, scale 1:24,000.

740. Condon, W.H., 1955, Photogeologic map of the Desert Lake-10 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-104, scale 1:24,000.

741. Hemphill, W.H., and Lewis, C.R., 1956, Photogeologic map of the Desert Lake-15 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-121, scale 1:24,000.

742. Keighin, C.W., 1977, Preliminary geologic map of the Burnt Timber Canyon quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-875, scale 1:24,000.

743. Kinney, D.M., 1955, Geology of the Uintah River-Brush Creek area, Duchesne and Uintah Counties, Utah: U.S. Geological Survey Bulletin 1007, plate 1, scale 1:63,360.

744. Bowers, W.E., Aigen, A.A., and Landis, E.R., 1976, Coal resources of the Alton, Utah, EMRIA site: U.S. Geological Survey Open-File Report 76-386, plate 1, scale 1:24,000. (NC, Da, M, Db, U.)

745. Bureau of Reclamation, Bureau of Land Management, and U.S. Geological Survey, 1975, Resource and potential reclamation evaluation, Alton Study Site, Alton Coal Field, Kane County, Utah: U.S. Department of the Interior EMRIA Report 4, fig. 1224-OA-300-1, Alton coal field, scale 1:24,000, fig. 1224-OA-300-46, EMRIA site, scale 1:48,000. Also other maps.

746. Gard, L.M., Jr., 1976, Geology of the North End of the Salt Valley anticline, Grand County, Utah: U.S. Geological Survey Open-File Report 76-303, fig. 3, scale 1:25,000. (NC, Da, M, Db, U; Nevada survey.) Also other maps.

747. Sanchez, J.D., and Hayes, P.T., 1979, Geologic map and coal resources of the Flagstaff Peak quadrangle, Emery, Sanpete, and Sevier Counties, Utah: U.S. Geological Survey Coal Investigations Map C-83, scale 1:24,000.

748. Witkind, I.J., and Sprinkel, D.A., 1982, Salt diapirism in central Utah, in Overthrust belt of Utah: Utah Geological Association Publication 10, p. 315-330, fig. 13, scale 1:48,000.

749. Keighin, C.W., 1977, Preliminary geologic map of the Rainbow quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-893, scale 1:24,000.

750. Peterson, Fred, 1969, Cretaceous sedimentation and tectonism in the southeastern Kaiparowits region, Utah: Open-File Report 69-202, plate 1, scale 1:30,000. (NC, Da, M.)

751. Moore, W.J., and Sorensen, M.L., 1977, Reconnaissance geologic map of northern Simpson Mountains, Davis Mountain, and adjacent areas, Tooele County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-905, scale 1:48,000.

752. Morris, H.T., 1977, Geologic map of the Furner Ridge quadrangle, Juab County, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1045, scale 1:24,000.

753. Astin, G.K., 1977, Structure and stratigraphy of the Co-op Creek quadrangle, Wasatch County, Utah: Brigham Young University Geology Studies, v. 24, pt. 1, fig. 1, scale 1:48,000.

754. Hansen, W.R., 1977, Geologic map of the Jones Hole quadrangle, Uintah County, Utah, and Moffat County, Colorado: U.S. Geological Survey Geologic Quadrangle Map GQ-1401, scale 1:24,000.

755. Hackman, R.J., 1957, Photogeologic map of the Buckskin Gulch NW quadrangle, Kane County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-251, scale 1:24,000.

756. Davis, F.D., and Doelling, H.H., 1977, Coal drilling at Trail Mountain, North Horn Mountain, and Johns Peak areas, Wasatch Plateau, Utah: Utah Geological and Mineral Survey Bulletin 112, plate 1, scale 1:63,360, plate 2, scale 1:42,000.

757. Witkind, I.J., Lidke, D.J., and McBroome, L.A., 1978, Preliminary geologic map of the Price 1° X 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 78-465, scale 1:250,000. (NC, Da, M, Db, U.)

758. Cunningham, C.G., and Steven, T.A., 1978, Geologic map of the Delano Peak NW quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-967, scale 1:24,000.

759. Smith, Larry, Kinney, D.M., and Rominger, J.F., 1960, Geology of the Park City Formation in the Ashley Creek-Brush Creek area, Uintah County, Utah: U.S. Geological Survey Open-File Report 60-126, scale 1:31,680. (NC, Da, M, Db, SF, LA, T; Alaska survey.)

760. Steven, T.A., 1978, Geologic map of the Sevier SW quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-962, scale 1:24,000.

761. Steven, T.A., and Morris, H.T., 1983, Geology of the Richfield quadrangle, west-central Utah: U.S. Geological Survey Open-File Report 83-583, plate 1, scale 1:250,000. (NC, Da, M, Db, U; Utah survey.)

762. Cashion, W.B., 1978, Geologic map of the Walsh Knolls quadrangle, Uintah County, Utah and Rio Blanco County, Colorado: U.S. Geological Survey Miscellaneous Investigations Series Map I-1013, scale 1:24,000.

763. Haugh, Galen, 1978, Preliminary geologic map of the Wildcat Creek area, eastern Beaver County: Utah Geological and Mineral Survey, Utah Geology, v. 5, no. 1, p. 33-36, fig. 1, scale 1:250,000.

764. Johnson, J.L., 1978, Stratigraphy of the coal-bearing Blackhawk Formation on North Horn Mountain, Wasatch Plateau, Utah: Utah Geological and Mineral Survey, Utah Geology, v. 5, no. 1, p. 57-77, fig. 3, scale 1:58,000.

765. Pipiringos, G.N., 1978, Preliminary geologic map of the Bates Knolls quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1025, scale 1:24,000.

766. Rowley, P.D., 1978, Geologic map of the Thermo 15-minute quadrangle, Beaver and Iron Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1493, scale 1:62,500.

767. Hose, R.K., Repenning, C.A., and Ziony, J.I., 1960, Generalized geologic map of a part of the Confusion Range, Utah: U.S. Geological Survey Open-File Report 60-73, scale 1:48,000. (NC, Da, M, Db, U, LA.)

768. Hemphill, W.R., 1953, Photogeologic map, Orange Cliffs 6 quadrangle, Wayne County, Utah: U.S. Geological Survey Open-File Report 54-121, scale 1:24,000. (NC, Db, U.)

769. Hamilton, W.L., 1978, Geological map of Zion National Park, Utah: Zion Natural History Association, scale 1:31,680.

770. Pipiringos, G.N., 1979, Preliminary geologic map of the Agency Draw NE quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1078, scale 1:24,000.

771. Hintze, L.F., Lemmon, D.M., and Morris, H.T., 1984, Geologic map of the Frisco Peak quadrangle, Millard and Beaver Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1573, scale 1:48,000. Supersedes OF 81-396.

772. Lemmon, D.M., and Morris, H.T., 1979, Preliminary geologic map of the Frisco quadrangle, Beaver County, Utah: U.S. Geological Survey Open-File Report 79-724, scale 1:48,000. (NC, Da, M, U.)

773. Bowers, W.E., 1983, Geologic map and coal sections of the Butler Valley quadrangle, Kane County, Utah: U.S. Geological Survey Coal Investigations Map C-95, plate 15, scale 1:24,000.

774. Trimble, L.M., and Doelling, H.H., 1978, Geology and uranium-vanadium deposits of the San Rafael River mining area, Emery County, Utah: Utah Geological and Mineral Survey Bulletin 113, plate 1, scale 1:12,000.

775. Steven, T.A., and Morris, H.T., 1983, Geologic map of the Cove Fort quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1481, scale 1:50,000. Supersedes OF 81-1093.

*776. Howard, E.L., 1978, Geologic map of the eastern Great Basin, Nevada and Utah: Terrascan Group Ltd., Lakewood, Colo. Sheet 1, southern part, scale 1:250,000, sheet 2, northern part, scale 1:250,000.

777. Bryant, Bruce, 1984, Reconnaissance geologic map of the Precambrian Farmington Canyon Complex and surrounding rocks in the Wasatch Mountains between Ogden and Bountiful, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1447, scale 1:50,000. Supersedes OF 79-709.

778. Morris, H.T., and Mogensen, A.P., 1978, Tintic mining district, Utah: Brigham Young University Geology Studies, v. 25, pt. 1, p. 33-45, fig. 2A, scale 1:140,000.

779. Cunningham, C.G., and Steven, T.A., 1979, Geologic map of the Delano Peak NE quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1105, scale 1:24,000.

780. Cunningham, C.G., and Steven, T.A., 1979, Geologic map of the Marysvale NW quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1106, scale 1:24,000.

781. Steven, T.A., 1979, Geologic map of the Monroe NW quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1107, scale 1:24,000.

782. Steven, T.A., 1979, Geologic map of volcanic rocks in the Sevier NE quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1108, scale 1:24,000.

783. Steven, T.A., and Cunningham, C.G., 1979, Geologic map of the Sevier SE quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1109, scale 1:24,000.

784. Witkind, I.J., and McGimsey, R.G., 1979, Preliminary geologic map of part of the southeast quarter of the Price 1° x 2° quadrangle, Carbon, Emery, and Grand Counties, Utah: U.S. Geological Survey Open-File Report 79-1202, scale 1:100,000. (NC, Da, M, Db, U.)

785. Campbell, J.A., 1979, Middle to late Cenozoic stratigraphy and structural development of the Canyon Range, central Utah: Utah Geological and Mineral Survey, Utah Geology, v. 6, no. 1, p. 1-16, fig. 1, scale 1:250,000.

786. Moore, W.J., and Sorensen, M.L., 1979, Geologic map of the Tooele 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1132, scale 1:250,000.

787. Lemmon, D.M., and Morris, H.T., 1979, Preliminary geologic map of the Milford quadrangle, Beaver County, Utah: U.S. Geological Survey Open-File Report 79-1471, scale 1:62,500. (NC, Da, M, U.)

788. Rowley, P.D., 1979, Geologic map of the Marysvale SE quadrangle, Piute County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1115, scale 1:24,000.

789. Hose, R.K., 1965, Geologic map and sections of the Conger Range SE quadrangle and adjacent area, Confusion Range, Millard County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-435, scale 1:24,000.

790. Rowley, P.D., Kinney, D.M., and Hansen, W.R., 1979, Geologic map of the Dinosaur Quarry quadrangle, Uintah County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1513, scale 1:24,000.

791. Witkind, I.J., 1979, Reconnaissance geologic map of the Wellington quadrangle, Carbon County, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1178, scale 1:24,000.

792. Hansen, W.R., 1957, Geology of the Clay Basin quadrangle, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-101, scale 1:24,000.

793. James, L.P., 1979, Geology, ore deposits, and history of the Big Cottonwood Mining District, Salt Lake County, Utah: Utah Geological and Mineral Survey Bulletin 114, plate 1, scale 1:24,000.

794. Rowley, P.D., and Hansen, W.R., 1979, Geologic map of the Split Mountain quadrangle, Uintah County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1515, scale 1:24,000.

795. Varnes, D.J., and Van Horn, Richard, 1951, Surficial geology of the Oak City area, Millard County, Utah: U.S. Geological Survey Open-File Report 51-12, scale 1:48,000. (NC, Da, M, Db, U; Utah survey.)

796. Cunningham, C.G., Anderson, J.J., and Steven, T.A., 1979, Geologic map of the Delano Peak SE quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1139, scale 1:24,000.

797. Cunningham, C.G., and Steven, T.A., 1979, Geologic map of the Monroe SW quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1140, scale 1:24,000.

798. Cunningham, C.G., and Steven, T.A., 1979, Geologic map of the Deer Trail Mountain-Alunite Ridge mining area, west-central Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1230, scale 1:24,000. Supersedes OF 78-314.

799. Carrara, P.E., 1980, Surficial geologic map of the Vernal 1° x 2° quadrangle, Colorado and Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1204, scale 1:250,000.

800. Rowley, P.D., Hansen, W.R., Tweto, Ogden, and Carrara, P.E., 1985, Geologic map of the Vernal 1° x 2° quadrangle, Colorado, Utah, and Wyoming: U.S. Geological Survey Miscellaneous Investigations Series Map I-1526, scale 1:250,000. Supersedes MF-1163.

801. Van Horn, Richard, 1979, Surficial geologic map of the Salt Lake City South quadrangle, Salt Lake County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1048, scale 1:24,000.

802. Best, M.G., and Keith, J.D., 1979, Map showing volcanic geology of the Observation Knoll and The Tetons quadrangles, Beaver and Iron Counties, Utah: U.S. Geological Survey Open-File Report 79-1611, scale 1:24,000. (NC, Da, M, Db, U.)

803. Best, M.G., Grant, S.K., and Holmes, R.D., 1979, Geologic map of the Miners Cabin Wash and Buckhorn Spring quadrangles, Beaver County, Utah: U.S. Geological Survey Open-File Report 79-1612, scale 1:24,000. (NC, Da, M, Db, U.)

804. Grant, S.K., and Best, M.G., 1979, Geologic map of the Lund quadrangle, Iron County, Utah: U.S. Geological Survey Open-File Report 79-1655, scale 1:24,000. (NC, Da, M, Db, U.)

805. Grant, S.K., and Best, M.G., 1979, Geologic map of the Pinto Spring and part of the Atchison Creek quadrangles, Beaver and Iron Counties, Utah: U.S. Geological Survey Open-File Report 79-1656, scale 1:24,000. (NC, Da, M, Db, U.)

806. Best, M.G., 1979, Geology of the Tertiary volcanic rocks in the Mountain Spring Peak quadrangle, Iron County, Utah: U.S. Geological Survey Open-File Report 79-1610, scale 1:24,000. (NC, Da, M, Db, U.)

807. Bennett, H.S., 1955, Photogeologic map of the Emery-7 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-10, scale 1:24,000.

808. Hansen, W.R., and Rowley, P.D., 1980, Geologic map of the Stuntz Reservoir quadrangle, Utah-Colorado: U.S. Geological Survey Geologic Quadrangle Map GQ-1530, scale 1:24,000.

809. Condon, W.H., and Miller, C.F., 1955, Photogeologic map of the Desert Lake-7 quadrangle, Emery County, Utah: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-102, scale 1:24,000.

810. Hintze, L.F., 1980, Preliminary geologic map of the Sand Pass NW quadrangle, Juab County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1149, scale 1:24,000.

811. Hintze, L.F., 1980, Preliminary geologic map of the Sand Pass quadrangle, Juab and Millard Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1151, scale 1:24,000.

812. Best, M.G., and Hintze, L.F., 1980, Geologic map of the Sawtooth Peak quadrangle, Beaver County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1152, scale 1:24,000.

813. Best, M.G., and Hintze, L.F., 1980, Geologic map of the Halfway Summit quadrangle, Millard and Beaver Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1153, scale 1:24,000.

814. Hintze, L.F., 1980, Preliminary geologic map of the Fish Springs NE and Fish Springs SE quadrangles, Juab and Tooele Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1147, scale 1:24,000.

815. Hintze, L.F., 1980, Preliminary geologic map of the Sand Pass NE and Sand Pass SE quadrangles, Juab and Millard Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1150, scale 1:24,000.

816. Stromquist, A.W., 1976, Geometry and growth of grabens, Lower Red Lake Canyon area, Canyonlands National Park, Utah: University of Massachusetts Department of Geology and Geography Contribution 28, plate 1, scale 1:12,000.

817. Cunningham, C.G., and Steven, T.A., 1980, Geologic map of the Beaver NE quadrangle, west-central Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1191, scale 1:24,000.

818. Miller, R.D., compiler, 1980, Surficial geologic map along part of the Wasatch Front, Salt Lake Valley, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1198, two sheets, scale 1:100,000.

819. Tooker, E.W., 1980, Preliminary geologic map of the Tooele quadrangle (7 1/2- minute), Tooele County, Utah: U.S. Geological Survey Open-File Report 80-623, scale 1:24,000. (NC, Da, M, U.)

820. Moore, J.N., and Samberg, S.M., 1979, Geology of the Cove Fort-Sulphurdale KGRA: University of Utah Research Institute Earth Science Laboratory Report ESL-18, plate 1, scale 1:24,000.

821. Sorensen, M.L., and Crittenden, M.D., Jr., 1976, Preliminary geologic map of the Mantua quadrangle and part of the Willard quadrangle, Box Elder, Weber, and Cache Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-720, scale 1:24,000. Supersedes OF 74-1.

822. Graff, P.J., Sears, J.W., and Holden, G.S., 1980, The Uinta Arch project--Investigations of uranium potential in Precambrian X and older metasedimentary rocks in the Uinta and Wasatch Ranges, Utah and Colorado: Research Associates of Wyoming, for U.S. Department of Energy, Report GJBX-170(80), plate 1, Uinta fault zone, scale 1:48,000, plate 3, Sessions Mountain area, scale 1:24,000, plate 4, Facer Creek area, scale 1:24,000, plate 5, Antelope Island, scale 1:48,000.

823. Crittenden, M.D., Jr., and Sorensen, M.L., 1985, Geologic map of the Mantua quadrangle and part of the Willard quadrangle, Box Elder, Weber, and Cache Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1605, scale 1:24,000.

824. Machette, M.N., 1983, Geologic map of the southwest quarter of the Beaver quadrangle, Beaver County, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1444, scale 1:24,000.

825. Machette, M.N., and Steven, T.A., 1983, Geologic map of the northwest quarter of the Beaver quadrangle, Beaver County, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1445, scale 1:24,000.

826. Taylor, J.M., 1980, Geology of the Sterling quadrangle, Sanpete County, Utah: Brigham Young University Geology Studies, v. 27, pt. 1, fig. 4, scale 1:24,000.

827. Hawks, R.L., Jr., 1980, Stratigraphy and structure of the Cedar Hills, Sanpete County, Utah: Brigham Young University Geology Studies, v. 27, pt. 1, fig. 17, scale 1:24,000.

828. Hansen, W.R., Carrara, P.E., and Rowley, P.D., 1981, Geologic map of the Crouse Reservoir quadrangle, Uintah and Daggett Counties, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1554, scale 1:24,000.

829. Anderson, P.B., 1983, Geologic map of the Pine Canyon quadrangle, Carbon County, Utah: Utah Geological and Mineral Survey Miscellaneous Series Map 72, scale 1:24,000.

830. Moore, W.J., Sorensen, M.L., and Armin, R.A., 1978, Reconnaissance geologic map of Onaqui Mountains South quadrangle, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-921, scale 1:48,000.

831. Armin, R.A., and Moore, W.J., 1981, Geology of the southeastern Stansbury Mountains and southern Onaqui Mountains, Tooele County, Utah: U.S. Geological Survey Open-File Report 81-247, scale 1:48,000. (NC, Da, M, SF, LA.)

832. Anderson, J.J., and others, 1981, Geologic map of the Delano Peak SW quadrangle, Beaver County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1255, scale 1:24,000.

833. Anderson, J.J., Lanigan, J.C., Cunningham, C.G., and Naeser, C.W., 1981, Geologic map of the Beaver SE quadrangle, Beaver County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1274, scale 1:24,000.

834. Galyardt, G.L., and Rush, F.E., 1981, Geologic map of the Crater Springs Known Geothermal Area and vicinity, Juab and Millard Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1297, scale 1:24,000.

835. Whitney, J.W., 1981, Surficial geologic map of the Grand Junction 1° x 2° quadrangle, Colorado and Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1289, scale 1:250,000.

836. Gualtieri, J.L., 1981, Geologic map of parts of Sego Canyon and Thompson quadrangles, Utah, showing coal zones and adjacent rocks: U.S. Geological Survey Open-File Report 81-553, scale 1:50,000. (NC, Da, M, Db, U.)

837. Sibbett, B.S., and Nielson, D.L., 1980, Geology of the central Mineral Mountains, Beaver County, Utah: University of Utah Research Institute Earth Science Laboratory, for U.S. Department of Energy, Report ET/28392-40, plate 1, scale 1:24,000.

838. Weir, G.W., and Beard, L.S., 1981, Geologic map of the Escalante Canyon Instant Study Area, Garfield County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1313-A, scale 1:48,000.

839. Weir, G.W., and Beard, L.S., 1981, Geologic map of the Phipps-Death Hollow Instant Study Area, Garfield County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1314, scale 1:48,000.

840. Morris, H.T., 1978, Unprospected zone of pyritic alteration in west-central Utah: U.S. Geological Survey Open-File Report 78-791, fig. 1, scale 1:10,000. (NC, Da, M, Db, U.)

841. Ellis, E.G., 1981, Geologic map and coal sections of the Ferron Canyon quadrangle, Sanpete and Emery Counties, Utah: U.S. Geological Survey Open-File Report 81-319, scale 1:24,000. (NC, Da, M, Db, U.)

842. Weir, G.W., 1981, Geologic map of the Grand Gulch Instant Study Area, San Juan County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1318, scale 1:62,500.

843. Ott, V.D., 1980, Geology of the Woodruff Narrows quadrangle, Utah-Wyoming: Brigham Young University Geology Studies, v. 27, pt. 2, p. 67-84, fig. 3, scale 1:24,000.

844. Morris, S.K., 1980, Geology and ore deposits of Mineral Mountain, Washington County, Utah: Brigham Young University Geology Studies, v. 27, pt. 2, p. 85-103, fig. 4, scale 1:24,000.

845. Wheeler, R.F., 1980, Geology of the Sewing Machine Pass quadrangle, central Wah Wah Range, Beaver County, Utah: Brigham Young University Geology Studies, v. 27, pt. 2, p. 175-191, fig. 11, scale 1:24,000.

846. Weir, G.W., and Beard, S.L., 1981, Geologic map of the Box-Death Hollow Further Planning Area (RARE II), Garfield County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1319-A, scale 1:48,000.

847. Bromfield, C.S., and Patten, L.L., 1981, Mineral resources of the Lone Peak Wilderness Study Area, Utah and Salt Lake Counties, Utah: U.S. Geological Survey Bulletin 1491, plate 1, scale 1:48,000.

848. Van Horn, Richard, 1981, Geologic map of the pre-Quaternary rocks of the Salt Lake City North quadrangle, Davis and Salt Lake Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1330, scale 1:24,000.

849. Machette, M.N., Steven, T.A., Cunningham, C.G., and Anderson, J.J., 1984, Geologic map of the Beaver quadrangle, Beaver and Piute Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1520, scale 1:50,000. Supersedes OF 81-951.

850. Rowley, P.D., Williams, P.L., Anderson, J.J., and Kaplan, A.M., 1981, Geologic map of the Marysvale NE quadrangle, Piute County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1329, scale 1:24,000.

851. Rowley, P.D., Steven, T.A., and Kaplan, A.M., 1981, Geologic map of the Monroe NE quadrangle, Sevier County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1330, scale 1:24,000.

852. Rowley, P.D., Cunningham, C.G., and Kaplan, A.M., 1981, Geologic map of the Monroe SE quadrangle, Sevier and Piute Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1331, scale 1:24,000.

853. Bowers, W.E., 1981, Geologic map and coal deposits of the Canaan Peak quadrangle, Garfield and Kane Counties, Utah: U.S. Geological Survey Coal Investigations Map C-90, scale 1:24,000.

854. Witkind, I.J., 1981, Reconnaissance geologic map of the Redmond quadrangle, Sanpete and Sevier Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1304-A, scale 1:24,000.

855. Hintze, L.F., 1981, Preliminary geologic map of the Swasey Peak and Swasey Peak NW quadrangles, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1333, scale 1:24,000.

856. Hintze, L.F., 1981, Preliminary geologic map of the Tunnel Spring quadrangle, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1334, scale 1:24,000.

857. Hintze, L.F., 1981, Preliminary geologic map of the Whirlwind Valley NW and Whirlwind Valley SW quadrangles, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1335, scale 1:24,000.

858. Christenson, G.E., and Deen, R.D., 1983, Engineering geology of the St. George area, Washington County, Utah: Utah Geological and Mineral Survey Special Studies 58, plate 1, scale 1:31,250.

859. Bush, A.L., and Lane, M.E., 1980, Preliminary report on the mineral resource potential of the Vermillion Cliffs-Paria Canyon Instant Study Area, Coconino County, Arizona, and Kane County, Utah: U.S. Geological Survey Open-File Report 80-1056, map, scale 1:62,500. (NC, Da, M, U, SF, LA; Arizona survey.)

860. Bush, A.L., 1983, Geologic map of the Vermillion Cliffs-Paria Canyon Instant Study Areas and adjacent Wilderness Study Areas, Coconino County, Arizona, and Kane County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1475-A, scale 1:62,500.

861. Gualtieri, J.L., 1980, Geologic strip map of Bar X Wash, Bryson Canyon, Jim Canyon, and San Arroyo Ridge quadrangles, Utah and Colorado, showing coal zones and adjacent rocks: U.S. Geological Survey Open-File Report 80-1228, scale 1:50,000. (NC, Da, M, U.)

862. Hintze, L.F., 1982, Preliminary geologic map of the Marjum Pass and Swasey Peak SW quadrangles, Millard County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1332, scale 1:24,000.

863. Keighin, C.W., 1977, Preliminary geologic map of the Cooper Canyon quadrangle, Uintah County, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-874, scale 1:24,000.

864. Rowley, P.D., Hansen, W.R., and Carrara, P.E., 1981, Geologic map of the Island Park quadrangle, Uintah County, Utah: U.S. Geological Survey Geologic Quadrangle Map GQ-1560, scale 1:24,000.

865. Ellis, E.G., and Frank, J.R., 1981, Geologic map and coal sections of the Red Point quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 81-1356, scale 1:24,000. (NC, Da, M, Db, U.)

866. Doelling, H.H., Campbell, J.A., Gwynn, J.W., and Perry, L.L., 1980, Geology and mineral resources of Box Elder County, Utah: Utah Geological and Mineral Survey Bulletin 115, plates 1 and 2, scale 1:125,000. Also other maps.

867. Oberhansley, G.G., 1980, Fairview Lakes quadrangle, Utah: Utah Geological and Mineral Survey Map 56, scale 1:24,000.

868. Valenti, G.L., 1982, Preliminary geologic map of the Laketown quadrangle, Rich County, Utah: Utah Geological and Mineral Survey Map 58, scale 1:24,000.

869. Gualtieri, J.L., 1982, Geologic map of parts of Crescent Junction and Floy Canyon quadrangles, Utah, showing coal zones and adjacent rocks: U.S. Geological Survey Open-File Report 82-584, scale 1:50,000. (NC, Da, M, Db, U.)

870. Witkind, I.J., Weiss, M.P., and Brown, T.L., 1982, Preliminary geologic map of the Manti 30' x 60' quadrangle, Carbon, Emery, Juab, and Sevier Counties, Utah: U.S. Geological Survey Open-File Report 82-654, scale 1:100,000. (NC, Da, M, Db, U.)

871. Scott, W.E., 1981, Field trip guide to the Quaternary stratigraphy and faulting in the area north of the mouth of Big Cottonwood Canyon, Salt Lake County, Utah: U.S. Geological Survey Open-File Report 81-773, fig. 2, scale 1:24,000. (NC, Da, M, Db, U.)

872. Valenti, G.L., 1982, Structure of the Laketown quadrangle and petroleum exploration in the Bear Lake area, Rich County, Utah, in Geologic studies of the Cordilleran thrust belt: Rocky Mountain Association of Geologists, p. 859-868, fig. 3, scale 1:63,360.

873. Ellis, M.S., and Hopeck, J.T., 1985, Geologic map showing coal beds in the Dakota Sandstone, Harley Dome quadrangle and parts of the Bitter Creek Well, Westwater 4 SE, and Westwater 4 SW quadrangles, Colorado and Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1800, scale 1:50,000. Supersedes OF 82-741.

874. Miller, D.M., Lush, A.P., and Schneyer, J.D., 1982, Preliminary geologic map of Patterson Pass and Crater Island NW quadrangles, Box Elder County, Utah, and Elko County, Nevada: U.S. Geological Survey Open-File Report 82-834, scale 1:24,000. (NC, Da, M, Db, U, SF, LA; Nevada survey.)

875. Best, M.G., and Davis, R.L., 1982, Geologic map of the Steamboat Mountain and Bible Spring quadrangles, western Iron County, Utah: U.S. Geological Survey Open-File Report 81-1213, scale 1:24,000. (NC, Da, M, Db, U.)

876. Percival, T.J., and Bright, J.H., 1982, National uranium resource evaluation--Elko quadrangle, Nevada and Utah: Uranium Services Co., for U.S. Department of Energy, Report PGJ/F-046(82), plate 6, scale 1:500,000.

877. Miller, R.D., compiler, 1982, Surficial geologic map along the southern part of the Wasatch Front, Great Salt Lake and Utah Lake Valleys, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1477, scale 1:100,000.

878. Evans, S.H., Jr., and Steven, T.A., 1982, Rhyolites in the Gillies Hill-Woodtick area, Beaver County, Utah: Geological Society of America Bulletin, v. 93, p. 1131-1141, fig. 2, scale 1:50,000.

879. Bamford, R.W., 1982, Generalized geology of the Roosevelt Hot Springs KGRA and vicinity, Beaver and Millard Counties, Utah, in Recent trends in hydrogeology: Geological Society of America Special Paper 189, p. 375-386, fig. 4, scale 1:150,000.

880. Paull, R.K., and Paull, R.A., 1982, Permian-Triassic unconformity in the Terrace Mountains, northwestern Utah: Geological Society of America, Geology, v. 10, p. 582-587, fig. 1, scale 1:34,000.

881. Paull, R.K., 1982, Conodont biostratigraphy of Lower Triassic rocks, Terrace Mountains, northwestern Utah, in Overthrust belt of Utah: Utah Geological Association Publication 10, p. 235-249, fig. 2, scale 1:42,000.

882. Lindsey, D.A., 1982, Tertiary volcanic rocks and uranium in the Thomas Range and northern Drum Mountains, Juab County, Utah: U.S. Geological Survey Professional Paper 1221, fig. 2, scale 1:150,000, fig. 15, scale 1:40,000.

883. Lindsey, D.A., 1979, Geologic map and cross-sections of Tertiary rocks in the Thomas Range and northern Drum Mountains, Juab County, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1176, scale 1:62,500.

884. Higgins, J.M., 1982, Geology of the Champlin Peak quadrangle, Juab and Millard Counties, Utah: Brigham Young University Geologic Studies, v. 29, pt. 2, p. 40-58, fig. 7, scale 1:24,000.

885. Hurst, Carolyn, 1982, Detailed gravity survey delineating buried strike-slip faults in the Crawford Mountain portion of the Utah-Idaho-Wyoming overthrust belt: Brigham Young University Geologic Studies, v. 29, pt. 2, p. 85-102, fig. 2, scale 1:200,000.

886. Williams, V.S., 1985, Surficial geologic map of the Kaiparowits coal-basin area, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1033-L, scale 1:125,000.

887. Sargent, K.A., and Hansen, D.E., 1983, Bedrock geologic map of the Kaiparowits coal-basin area, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1033-I, scale 1:125,000.

888. Huntoon, P.W., Billingsley, G.H., Jr., and Breed, W.J., 1982, Geologic map of Canyonlands National Park and vicinity, Utah: Canyonlands Natural History Association, scale 1:62,500.

889. Colman, S.M., and Hawkins, F.F., 1985, Surficial geologic map of the Fisher Valley- Professor Valley area, southeastern Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1596, scale 1:24,000. Supersedes OF 83-58.

890. Lemmon, D.M., and Morris, H.T., 1984, Preliminary geologic map of the Beaver Lake Mountains quadrangle, Millard and Beaver Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1572, scale 1:48,000.

891. Cunningham, C.G., Steven, T.A., Rowley, P.D., Glassgold, L.B., and Anderson, J.J., 1983, Geologic map of the Tushar Mountains and adjoining areas, Marysvale volcanic field, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1430-A, scale 1:50,000. Supersedes OF 81-831.

892. Van Horn, Richard, 1975, Unevaluated reconnaissance geologic maps of Salt Lake and Davis Counties west of the Wasatch Front, Utah: U.S. Geological Survey Open-File Report 75-616, scale 1:48,000. (NC, Da, M, Db, U.) Several 7 1/2-minute quads.

893. Sorensen, M.L., Korzeb, S.L., and Neubert, J.T., 1983, Mineral resource potential map of the Birdseye, Nephi, and Santaquin Roadless Areas, Juab and Utah Counties, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-1574, scale 1:62,500.

894. Witkind, I.J., and Page, W.R., 1983, Geologic map of the Thistle area, Utah County, Utah: Utah Geological and Mineral Survey Map 69, scale 1:24,000.

895. Pampeyan, E.H., 1984, Geologic map of the Lynndyl 30 x 60 minute quadrangle, Tooele, Juab, Utah, and Millard Counties, Utah: U.S. Geological Survey Open-File Report 84-660, map, scale 1:100,000. (NC, Da, M, Db, U; Utah survey.)

896. Dover, J.H., and Bigsby, P.R., 1983, Mineral resource potential map of Mount Naomi Roadless Area, Cache County, Utah, and Franklin County, Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-1566-A, scale 1:100,000.

897. Whelan, J.A., 1982, Geology, ore deposits, and mineralogy of the Rocky Range, near Milford, Beaver County, Utah: Utah Geological and Mineral Survey Special Studies 57, fig. 1, scale 1:30,000.

898. Gualtieri, J.L., 1980, Geologic strip map of parts of Antone Canyon, Cisco Spring, Dry Canyon, and Flume Canyon quadrangles showing coal zones and adjacent rocks, Utah: U.S. Geological Survey Open-File Report 80-1227, scale 1:50,000. (NC, Da, M, U.)

899. Miller, D.M., and Schneyer, J.D., 1982, Preliminary geologic map of Tecoma and Lucin quadrangles, Box Elder County, Utah, and Elko County, Nevada: U.S. Geological Survey Open-File Report 83-725, sheet 1, scale 1:24,000. (NC, Da, M, Db, U, SF, LA; Nevada and Utah surveys.)

900. Miller, D.M., and Schneyer, J.D., 1985, Geologic map of the Tecoma quadrangle, Box Elder County, Utah, and Elko County, Nevada: Utah Geological and Mineral Survey Map 77, scale 1:24,000.

901. Miller, D.M., 1985, Geologic map of the Lucin quadrangle, Box Elder County, Utah: Utah Geological and Mineral Survey Map 78, plate 1, scale 1:24,000.

902. Weide, D.L., 1982, Surficial geologic map of the Caliente 1^{o} x 2^{o} quadrangle, Nevada and Utah: U.S. Geological Survey Open-File Report 82-707, scale 1:250,000. (NC, Da, M, Db, U, SF, LA; Nevada survey.)

903. Karfunkel, B.S., compiler, 1983, Geology and mineral resources of the Caliente, Ely, Klamath Falls, Vya, and Wells 1^{o} x 2^{o} NTMS quadrangles: E. I. du Pont de Nemours and Co., for U.S. Department of Energy, Report GJBX-7(83), plate 1, Caliente, scale 1:500,000, plate 3, Ely, scale 1:500,000, plate 10, Wells, scale 1:500,000. Also other maps.

904. Proffitt, J.L., Mayerson, D.L., Parker, D.P., Wolverson, Nancy, Antrim, Don, Berg, John, and Witzel, Frank, 1982, National uranium resource evaluation--Wells quadrangle, Nevada, Idaho, and Utah: Bendix Field Engineering Corporation, for U.S. Department of Energy, Report PGJ/F-70(82), plate 7, scale 1:500,000. Also other maps.

905. Miller, D.M., Armstrong, R.L., Compton, R.R., and Todd, V.R., 1983, Geology of the Albion-Raft River-Grouse Creek Mountains area, northwestern Utah and southern Idaho, in Geologic excursions in the overthrust belt and metamorphic core complexes of the intermountain region: Utah Geological and Mineral Survey Special Report 59, p. 1-62, fig. 18, Ingham Pass area, scale 1:38,000, fig. 19, near Emigrant Pass, scale 1:70,000. Also other maps.

906. Hansen, W.R., Rowley, P.D., and Carrara, P.E., 1983, Geologic map of Dinosaur National Monument and vicinity, Utah and Colorado: U.S. Geological Survey Miscellaneous Investigations Series Map I-1407, scale 1:50,000.

907. Miller, D.M., and Lush, A.P., 1981, Preliminary geologic map of the Pilot Peak and adjacent quadrangles, Elko County, Nevada, and Box Elder County, Utah: U.S. Geological Survey Open-File Report 81-658, scale 1:24,000. (NC, Da, M, Db, U.)

908. Abbott, J.T., Best, M.G., and Morris, H.T., 1983, Geologic map of the Pine Grove-Blawn Mountain area, Beaver County, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1479, scale 1:24,000.

909. Morris, H.T., Best, M.G., Kopf, R.W., and Keith, J.D., 1982, Preliminary geologic map and cross sections of the Tetons quadrangle and adjacent part of the Observation Knoll quadrangle, Beaver and Iron Counties, Utah: U.S. Geological Survey Open-File Report 82-778, Sheet 1, scale 1:24,000. (NC, Da, M, Db, U.)

910. Condon, W.H., 1953, Photogeologic map, Orange Cliffs 4 quadrangle, Wayne County, Utah: U.S. Geological Survey Open-File Report 53-43, scale 1:24,000. (NC, Db, U.)

911. Hemphill, W.R., 1953, Photogeologic map, Orange Cliffs 7 quadrangle, Wayne and San Juan Counties, Utah: U.S. Geological Survey Open-File Report 53-110, scale 1:24,000. (NC, Db, U.)

912. Hosley, V.M., 1953, Photogeologic map, Orange Cliffs 5 quadrangle, Wayne County, Utah: U.S. Geological Survey Open-File Report 53-129, scale 1:24,000. (NC, Db, U.)

913. Orkild, P.P., 1953, Photogeologic map, Orange Cliffs 1 quadrangle, Wayne and San Juan Counties, Utah: U.S. Geological Survey Open-File Report 53-204, scale 1:24,000. (NC, Db, U.)

914. Orkild, P.P., 1953, Photogeologic map, Orange Cliffs 2 quadrangle, Wayne County, Utah: U.S. Geological Survey Open-File Report 53-205, scale 1:24,000. (NC, Db, U.)

915. Hemphill, W.R., 1953, Photogeologic map, Orange Cliffs 8 quadrangle, Wayne and San Juan Counties, Utah: U.S. Geological Survey Open-File Report 53-111, scale 1:24,000. (NC, Db, U.)

916. Orkild, P.P., 1953, Photogeologic map, Orange Cliffs 3 quadrangle, Wayne County, Utah: U.S. Geological Survey Open-File Report 53-206, scale 1:24,000. (NC, Db, U.)

917. Ray, R.G., 1953, Photogeologic map, Orange Cliffs 12 quadrangle, Wayne and Garfield Counties, Utah: U.S. Geological Survey Open-File Report 53-227, scale 1:24,000. (NC, Db, U.)

918. Ray, R.G., 1953, Photogeologic map, Orange Cliffs 14 quadrangle, Garfield County, Utah: U.S. Geological Survey Open-File Report 53-229, scale 1:24,000. (NC, Db, U.)

919. Condon, W.H., 1953, Photogeologic map, Orange Cliffs 10 quadrangle, Wayne and Garfield Counties, Utah: U.S. Geological Survey Open-File Report 53-44, scale 1:24,000. (NC, Db, U.)

920. Condon, W.H., 1954, Photogeologic map, Orange Cliffs 9 quadrangle, Garfield and Wayne Counties, Utah: U.S. Geological Survey Open-File Report 54-57, scale 1:24,000. (NC, Db, U.)

921. Kent, B.H., and Condon, W.H., 1954, Photogeologic map, Orange Cliffs 15 quadrangle, Garfield and San Juan Counties, Utah: U.S. Geological Survey Open-File Report 54-147, scale 1:24,000. (NC, Db, U.)

922. Hackman, R.J., 1952, Photogeologic maps of the Verdure 1, 2, 4, 6, 7, and 8 quadrangles, Utah and Colorado: U.S. Geological Survey Open-File Report 52-63, scale 1:24,000. (NC, Db, U.) Partially superseded.

923. Hackman, R.J., 1952, Photogeologic maps of the Verdure 3 and 5 quadrangles, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-64, scale 1:24,000. (NC, Db, U.)

924. Hackman, R.J., 1952, Photogeologic maps of the Verdure 9, 10, 11, 12, 13, 14, 15, and 16 quadrangles, Utah and Colorado: U.S. Geological Survey Open-File Report 52-65, scale 1:24,000. (NC, Db, U.) Partially superseded.

925. Fischer, W.A., and Condon, W.H., 1953, Photogeologic map of Navajo Mountain 16 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 53-70, scale 1:24,000. (NC, Db, U.)

926. Condon, W.H., 1953, Photogeologic map, Emery 9 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-41, scale 1:24,000. (NC, Db, U.)

927. Condon, W.H., 1953, Photogeologic map, Emery 16 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-42, scale 1:24,000. (NC, Db, U.)

928. Fischer, W.A., 1953, Photogeologic map of Clay Hills 14 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 53-67, scale 1:24,000. (Db, U.)

929. Fischer, W.A., 1952, Photogeologic map of the Clay Hills 13 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-46, scale 1:24,000. (Db, U.)

930. Fischer, W.A., 1952, Photogeologic map of Clay Hills 12 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-47, scale 1:24,000. (Db, U.)

931. Eckstein, W.H., 1952, Photogeologic map of Clay Hills 15 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 52-40, scale 1:24,000. (Db, U.)

932. Bates, C.E., and Eckstein, W.H., 1953, Photogeologic map of Clay Hills 16 quadrangle, San Juan County, Utah: U.S. Geological Survey Open-File Report 53-15, scale 1:24,000. (Db, U.)

933. Scott, J.M., 1954, Photogeologic map, Stinking Spring Creek 1 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 54-281, scale 1:24,000. (NC, Db, U.)

934. Hemphill, W.R., 1954, Photogeologic map, Stinking Spring Creek 10 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 54-122, scale 1:24,000. (NC, Db, U.)

935. Bates, C.E., 1952, Photogeologic maps of the Stinking Spring Creek 13 and 14 quadrangles, Emery County, Utah: U.S. Geological Survey Open-File Report 52-12, scale 1:24,000. (NC, Db, U.)

936. Ray, R.G., and Fischer, W.A., 1952, Photogeologic maps of the Stinking Spring Creek 11 and 12 quadrangles, Emery County, Utah: U.S. Geological Survey Open-File Report 52-122, scale 1:24,000. (NC, Db, U.)

937. Hemphill, W.R., 1953, Photogeologic map, Stinking Spring Creek 2 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-112, scale 1:24,000. (NC, Db, U.)

938. Hemphill, W.R., 1953, Photogeologic maps, Stinking Spring Creek 6 and 7 quadrangles, Emery County, Utah: U.S. Geological Survey Open-File Report 53-113, scale 1:24,000. (NC, Db, U.)

939. Hemphill, W.R., 1953, Photogeologic map, Stinking Spring Creek 8 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-114, scale 1:24,000. (NC, Db, U.)

940. Hemphill, W.R., 1953, Photogeologic map, Stinking Spring Creek 9 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-115, scale 1:24,000. (NC, Db, U.)

941. Orkild, P.P., 1953, Photogeologic map, Stinking Spring Creek 3 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-207, scale 1:24,000. (NC, Db, U.)

942. Orkild, P.P., 1953, Photogeologic maps, Stinking Spring Creek quadrangles 4 and 5, Emery County, Utah: U.S. Geological Survey Open-File Report 53-208, scale 1:24,000. (NC, Db, U.)

943. Orkild, P.P., 1953, Photogeologic map, Stinking Spring Creek 15 quadrangle, Emery County, Utah: U.S. Geological Survey Open-File Report 53-209, scale 1:24,000. (NC, Db, U.)

944. Wiese, J.H., Granger, A.E., Shride, A.F., and Hobbs, S.W., 1945, Desert tungsten mine area, West Tintic mining district, Utah: U.S. Geological Survey Preliminary Map, plate 1, scale 1:1,200, plate 2, scale 1:480.

945. Stringham, B.F., 1942, Mineralization in the West Tintic mining district, Utah: Geological Society of America Bulletin, v. 52, no. 2, p. 267-290, plate 1, scale 1:14,000.

946. Hobbs, S.W., 1945, Tungsten deposits in Beaver County, Utah: U.S. Geological Survey Bulletin 945-D, plate 32, scale 1:125,000, plate 33, scale 1:2,400, plate 40, scale 1:1,200.

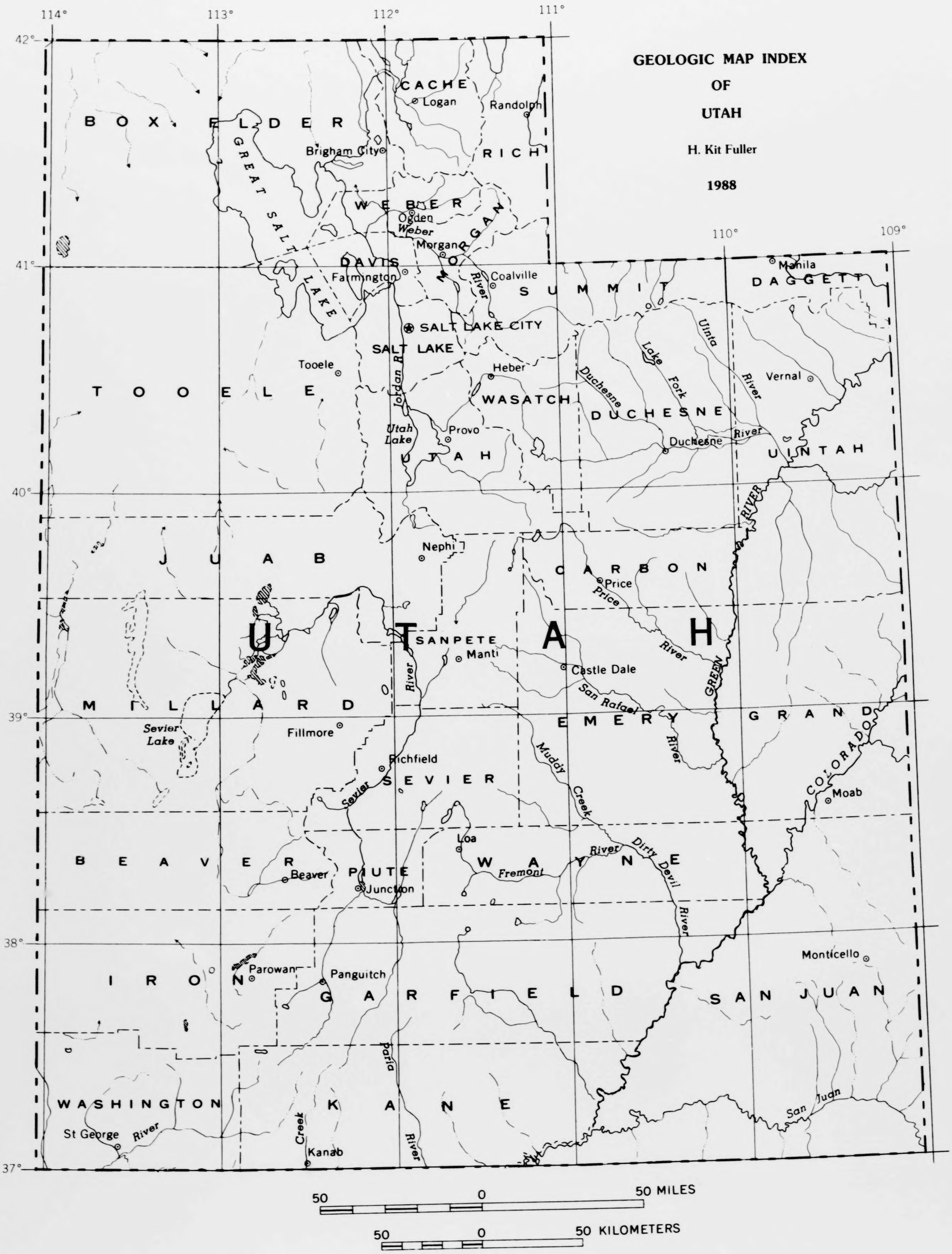
UTAH

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

GEOLOGIC MAP INDEX
OF
UTAH

H. Kit Fuller

1988



GEOGRAPHIC MAP OF UTAH

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UTAH

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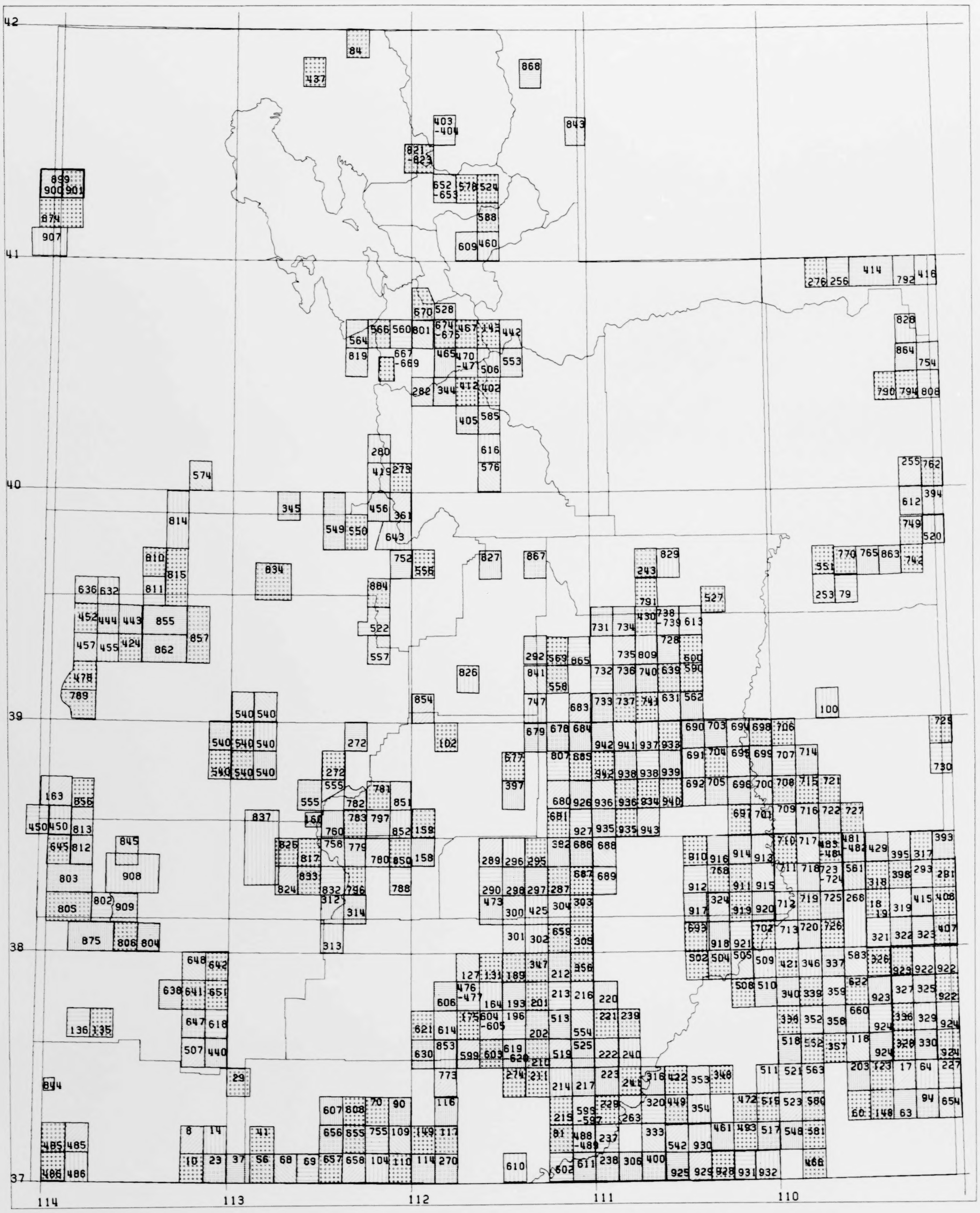

MAPS AT SCALES LARGER THAN 1:24,000 1 OF 2

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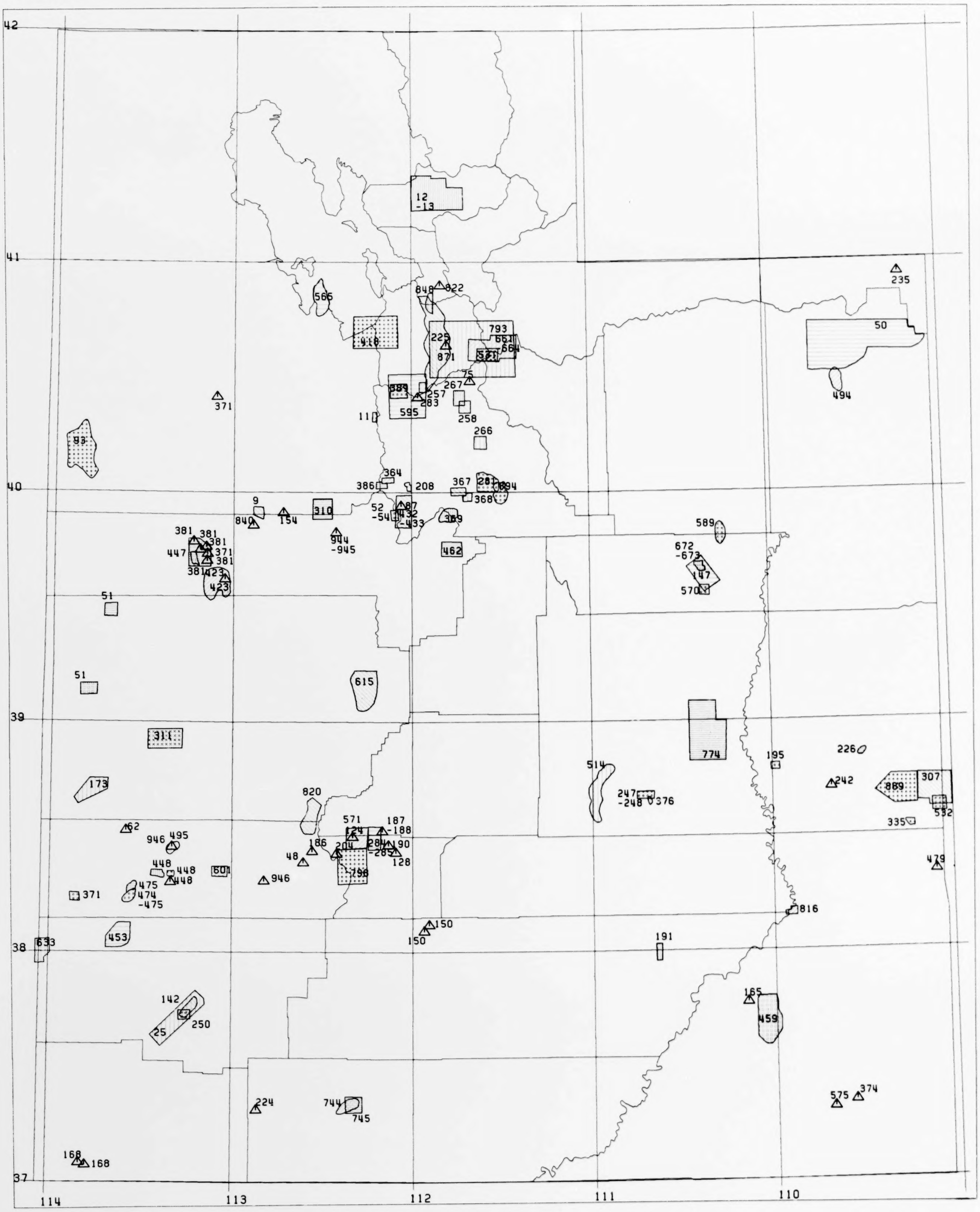

MAPS AT SCALES LARGER THAN 1:24,000 2 OF 2

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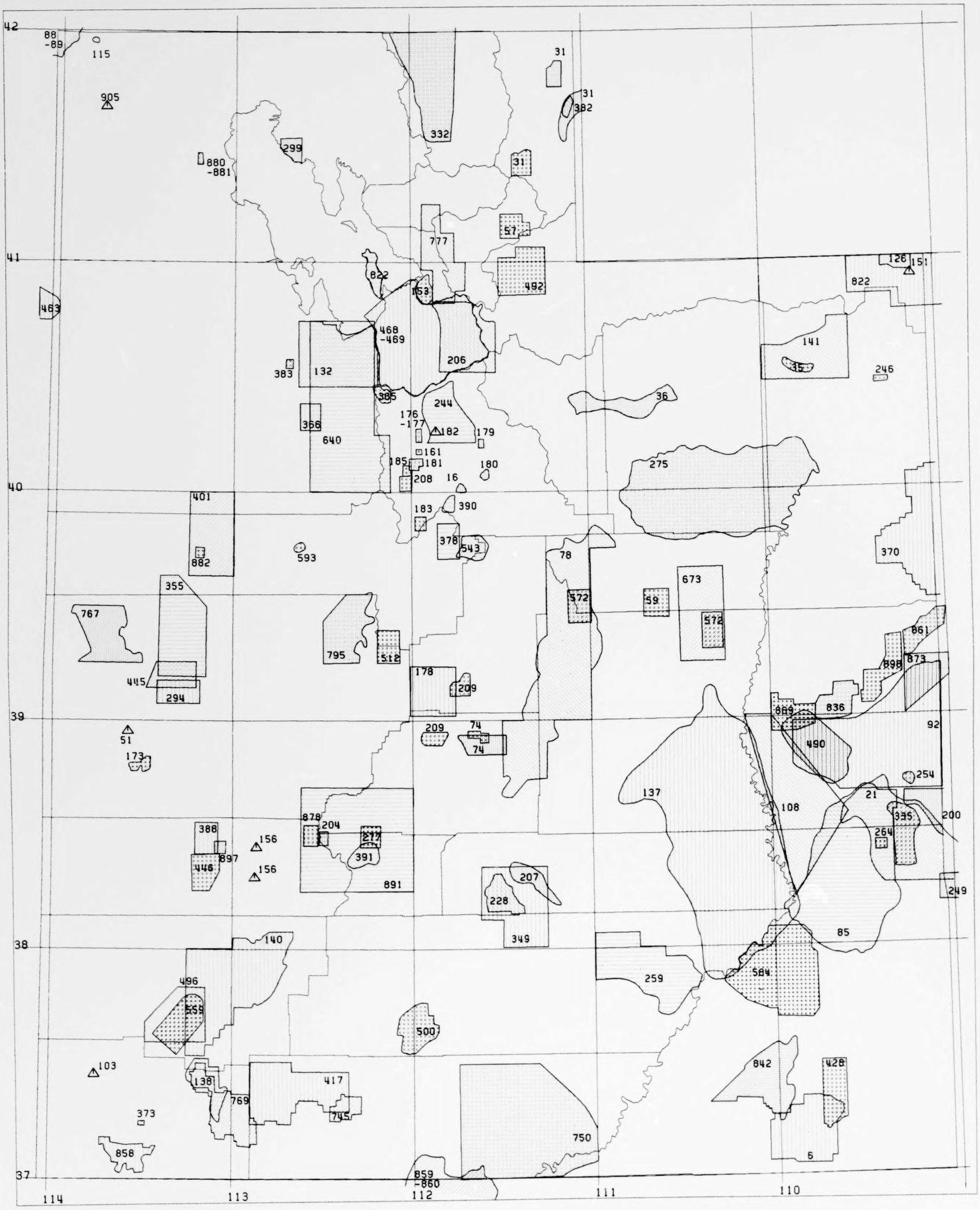

MAPS AT SCALES SMALLER THAN 1:24,000 THROUGH 1:63,360 2 OF 2

1988

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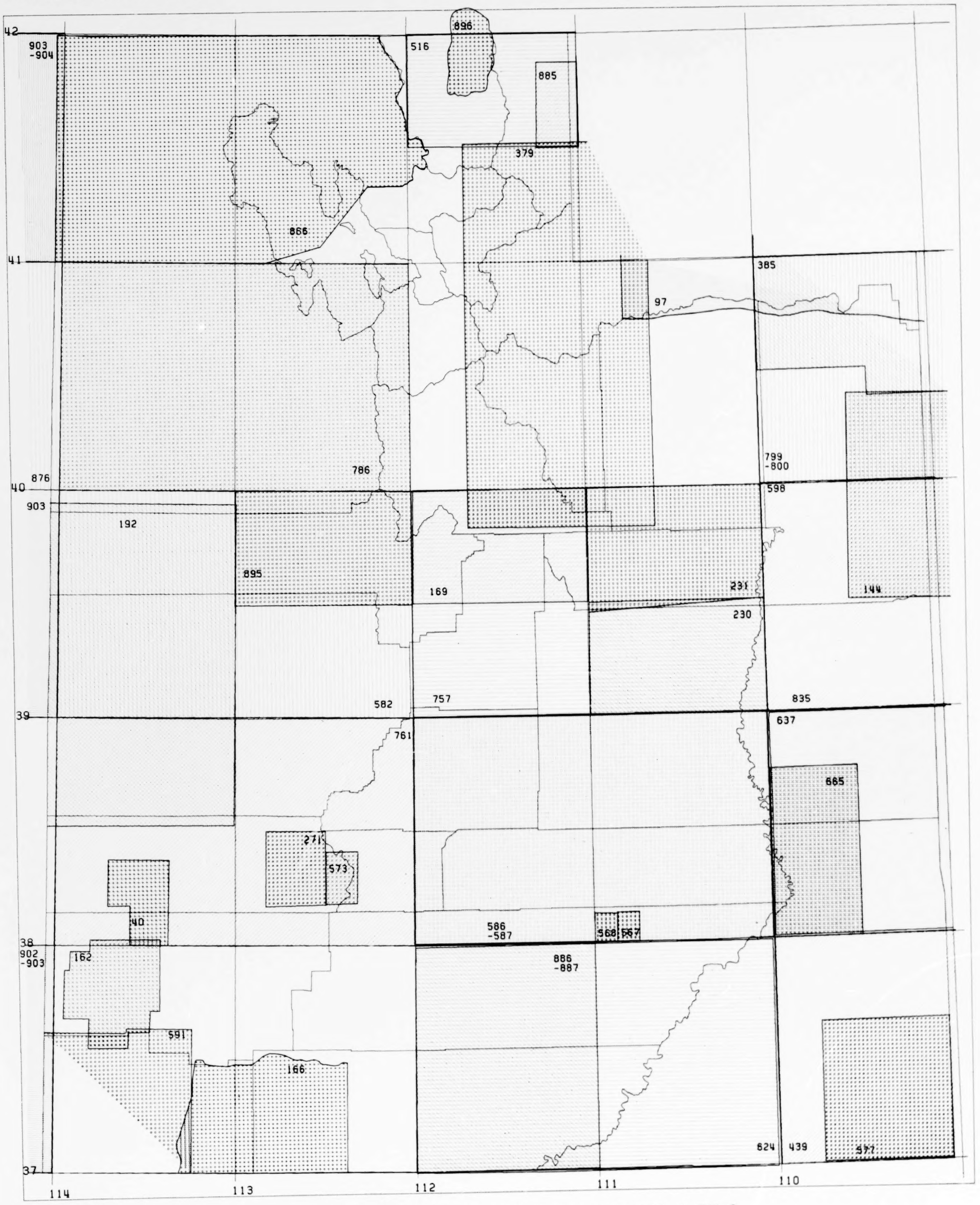

MAPS AT SCALES SMALLER THAN 1:63,360 1 OF 3

1988

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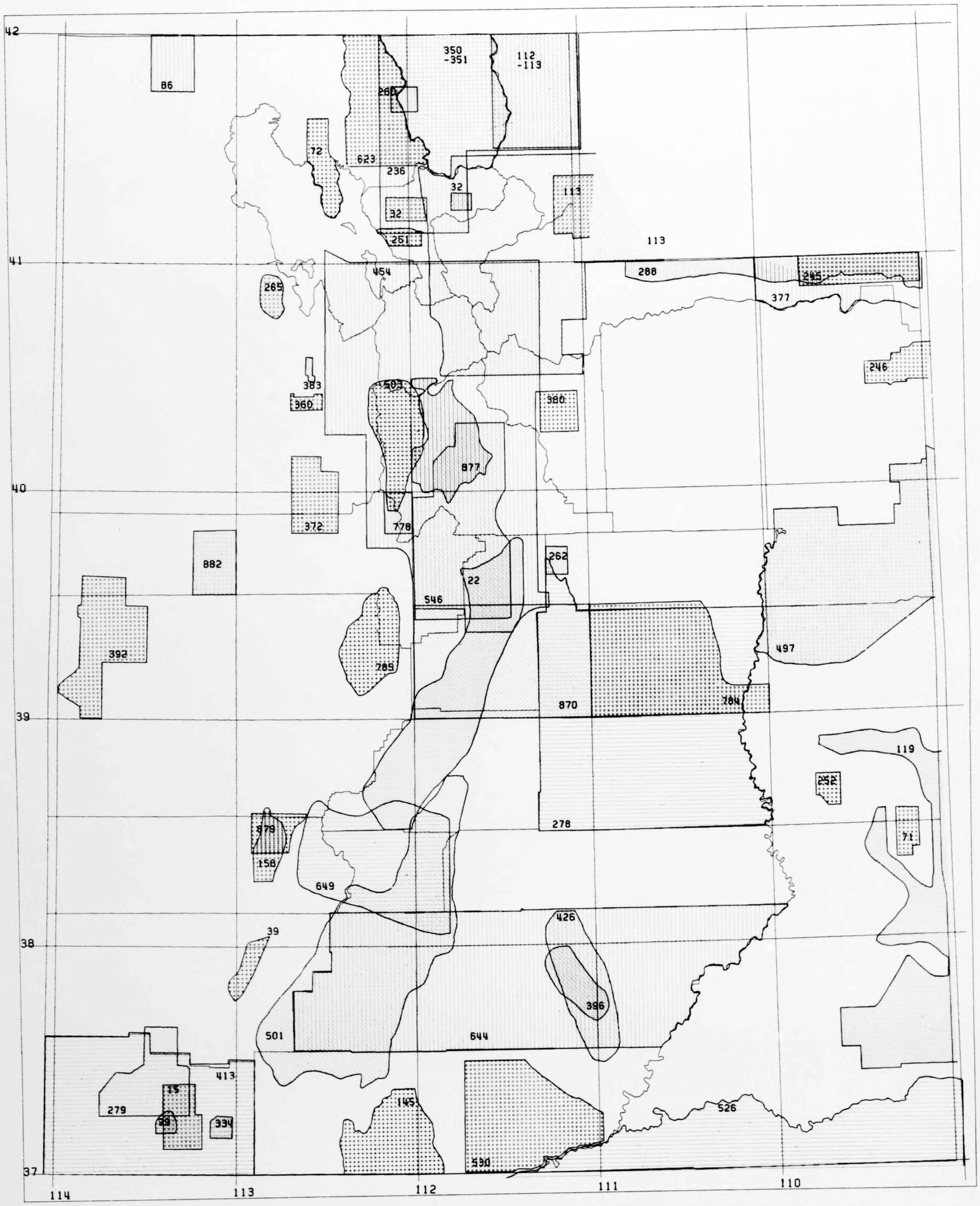

MAPS AT SCALES SMALLER THAN 1:63,360 3 OF 3

1988

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